



SEQUENCE LISTING

<10> Julien, Bryan
Reid, Ralph C.

<120> Disorazole Polyketide Synthase Encoding Polynucleotides

<130> 020547-003560US

<140> US 10/729,802
<141> 2003-12-05

<150> US 60/512,892
<151> 2003-10-20

<150> US 60/484,934
<151> 2003-07-02

<150> US 60/473,311
<151> 2003-05-22

<150> US 60/465,038
<151> 2003-04-23

<150> US 60/455,521
<151> 2003-03-17

<150> US 60/431,272
<151> 2002-12-06

<160> 9

<170> PatentIn version 3.3

<210> 1
<211> 77294
<212> DNA
<213> Sorangium cellulosum

<400> 1
tgggtatccc gagccgctgg cgccgttccc acaaggcctt gcggctgatg ccgagccgac 60
gggcaatctc ggtctccgtc agctcgtcct ggtgctccag cacgaagcgg cggaatagc 120
cctcgagcga gtccgaaggc ggcccccgt cgccgagcga tgcggaggag acgggaggag 180
gcggccgcgg cgggtcgtcg agcccagggt gggccctctc gatcgcgctg ccccgggcga 240
gcaccacggc gcggtgaacg gcgttctcca gctcccggac gttgcccggc cagggcgccg 300
ccgcgatggc cgcgcgcgcc tccgccgaca gcgcgagcgg cgctgcccc atcaccgcgg 360
tccgtcgctt cagcagcgac tcggcgatgc gcaccgcgtc cccggggccg tcccgagcg 420
gcggcagccg gatctccagc accgcagcc ggaaatacag gtcgctccgg aagctccct 480
cgcgccaccat cgccccgaga tcccggtgcg tcgccgcgat cagccgcacg tccgcccgcc 540
gggcgcgcgt cgacccacc cgccgcaact cgcccgctg caaaaaacgc agcaggcgcc 600
cctgcacctt catcggcagc tcgccgacct cgtcgagcag cagcgtcccg ccctcgcgg 660

cctcgcacag	ccccgcccgc	gccgcgagcg	cgcccgcggc	cgcgccggcc	tcgtaccoga	720
acagctcgcc	ctcgatctgc	gcatcgggga	tcgccgcgca	ctgcacgagc	acgaacggct	780
gctgccgccc	cgggctcagc	cggtgcaccg	cgcgcgccag	cgtctccttg	cccgtgcccc	840
cctcgcccac	caccagcagc	gtcgccctgc	tcggcgccac	cttgcgacc	tgcgogaaca	900
cctctcgcat	cgccgcagag	ccgcccacca	tcccctcgag	ctcgtcgccg	tccggcgccg	960
gcggcgcggg	cggcgcgggc	agaggcgcg	gcggcgcggc	ctcggggcgc	acgctggcga	1020
ggtggcgctc	gacaagcgcg	acgagctcgt	cgtgatcgaa	cggcttcgag	aggtaatccg	1080
ccgcgccccg	cttcacggcc	tccaccgccc	ccttcacggc	cgcatagctc	gtcatcagca	1140
ccaccggcgc	gctcccgcac	cgccccacga	gctccgtccc	cggcgcgccg	ggcaagcgca	1200
cgtccgcccag	caccagatcg	aacgcgcaga	gctcgtgctc	cgccctccgc	tcggcgatcg	1260
accccgctc	gacgacggcg	tgcccggtgc	gcgccaagag	ccgcgcgagc	tcgcacgga	1320
tgacgatctc	gtcctcgatc	agcaggatcc	ggctcatgct	tccacctcgc	gcccgcgccg	1380
cgccccggcc	tcgcccgcca	gcgggagccg	cacgatcacc	gtcgtcccct	gccccacgc	1440
gctccgcagc	gccagcgcg	cgccgtgatc	ctcgatgatc	gagcgcgaga	gcggcaggcc	1500
gagccccgtg	ccgctcgggc	cgcgcttcgt	ggtcacgaac	ggctccagca	ccgcggagag	1560
gagctcctcg	gggatgccgc	tgccgtggtc	ctcgacctcg	acgacgatct	ggccccctc	1620
gatccacccg	cggacggcga	cggtcgcgcc	gggctcggac	gcgtcgcggg	cgttcgcgag	1680
caggttcacg	aagacctgca	cgagctcgcg	ccggtcgccg	atgacaacga	gcgactccgg	1740
gcagtgctgc	tccacccgca	cgtgcggggc	cgtgcggctg	agccggatca	gccgatccgc	1800
ctcgccacc	acctcggcga	gcgacacgcg	accgaccgcg	gcgcgcggga	tctcgccggg	1860
cgacggcacg	gcgcgggtgc	ggctgtgatc	gagcagcgac	cggaggatcg	cctcgatgcg	1920
cgccgtctcg	ccgaggatga	ggcccccccg	cgcgcggtac	tcgtcgctgt	cggcctcggc	1980
ccggagggtc	tgcgcgaggc	aggcgatgcc	ggtgagcggg	ttgccgacct	cgtgggccac	2040
gccccggcgc	agccgcccga	tctgggcccag	gcggtcgcgg	tgggcgagct	gcgcctcgag	2100
cgcgcgctgc	tcggtgcgat	cctccacgag	caggaccacg	ccgcccagg	cggcccgcgc	2160
gtcgagcgga	tcgagcgcg	cccggtgac	gcgcaggagg	cgccccgcc	cggccacgag	2220
cacctcgatc	tcctcggcgc	ccgcgcggc	ctcgcccgcg	gaggccgcgc	gggcccgcgc	2280
ggcgaacagc	tccgcgaacg	gggcccggcag	ccggtcgagc	ggcggcccga	cgaggtcgcg	2340
ctcctcggcg	ccgacgagcg	cctcgaggcg	ccggttgacg	aggctgatcg	cgccgtcgga	2400
gccccaggcg	cagaccccga	gaggagctg	cgcgagcacc	gagcgagcc	accgccgcag	2460

gagatcgagc	tccctcgccg	cgccgacgag	ccgctctctg	ccgcgcgcg	ggcgccgctc	2520
cagccaccgg	agctcctcgg	tgagcgcgcc	ggacgcgccc	ccggacgcg	ccggcgcgct	2580
cgctccggc	tccgcccgg	tctcgcgag	caccggggcg	accagcgggc	acaggttgcg	2640
gtgcagccgc	tctgcagcg	cgtggagctc	ggtggggccg	gtctcgtcgc	gcgagatgtc	2700
gagctcgatc	cgggcgcgcg	tgacctcgat	cgcggccggc	tcgcgggcga	gcagccgcg	2760
gagcctgtcc	tccagcgcg	ccacgctcga	cgccacggtc	gcgcgctcca	ccgagggggc	2820
gatctcgcg	cgcgtgcaca	ggcggggccg	ctcgcgctcc	tccctggccg	gcggggcgag	2880
cagcgagacg	atcccgagcg	tcgcgcggtt	gacggcgagc	gacacgaacg	tcgggagcga	2940
ccacgggtcg	atggggcgcc	cgcggcgccg	cgcgcccgcg	cccccgcgca	ggagcgcgag	3000
ccacgccgga	tcgatcccgg	gcacgccggg	caggagcggc	gcgaggcagg	tggccgtcca	3060
ggtcgcgatg	ccggcgagga	gcccggccat	gaaccccgcg	cgcgtggcg	gctcccagaa	3120
gagcgcgggc	agcaggcccc	ggaggaactg	cgcgaaggcg	acgaacgaca	cgatgccgct	3180
ctcgacgagc	agcccgtggt	gcggctgcgc	gcggtggaag	agccacccgc	cgacgaggat	3240
ggccgcgagg	agcacgcgcc	ggagccacag	cacgcgcgcg	tacacgttgc	ggcgacgct	3300
ccgcgcgcg	agcggcagga	gcaggtgcgt	cgcgctgtcg	ttcgcgaggg	cgacggccgt	3360
gaccatggcc	atggcgctcg	ccgcggagat	gccgccgatg	aacgcggcga	gcgcgagcca	3420
gcgctggccg	agcagctgcg	gcacgagcag	cacgtagctg	tcggcgggct	cgccgggggc	3480
gaggcgcgtc	ccggcccaga	ggacgggcag	gacgggcagg	ttgagcgcg	gcaggaacag	3540
ggggaacgcc	cacgccgccg	tggcgagcgc	gcggtccccg	gcgccgctgg	cgaacgccat	3600
gtgccactgc	cgcggcagca	ggaaggccgc	ggcgaagctg	atgacgagca	tcgaggtcca	3660
gccgtgtcc	tcccgcacgt	ggcgggcgag	cgctcgacc	tcggcgggct	gctcgccgag	3720
ccagcccgcg	agcccgccga	gcccgcgaa	cgcggcgagc	acggcggcga	ggcccacggc	3780
cgcgagcacg	gcgagcttcg	ccgccgaact	gaacgcgacg	gccgccgcga	ggccgtcctc	3840
gcgcccctgc	tcggccgacg	ggcggggccg	gaagaaggcc	gtgaagagcg	cgagcagcgc	3900
gcagaagacg	gcgcccacgg	cctcctcgct	ccccggcccc	gagagcacgc	gcaccgactg	3960
cacggctcg	cggaaactgct	gcgcgacgta	gggcaggctc	gccacgagcg	cgaaggcggc	4020
gacgagcgcc	ccggcgggcg	ggctctggaa	gcggaacgcg	agcaggctcg	tgagcgacga	4080
gaggcgctgc	tcgcgcgtga	tgcgcagcac	gcgcgcccag	aggagcgggc	tggccatgca	4140
cgcgagcgtc	gggcccaggt	acacagcgag	gaagacgagc	ccgtggcgct	gcgcgaagcc	4200
gacgcccgcc	tagtacgtcc	acgacgaggc	gtagacgccg	agcgagaggg	cgagcacgag	4260
cgggctccgc	gcgagcgcg	gcggggcgcc	ggcgcgctgc	gcggcgagcg	cgatcgcggc	4320

gagcacgccg	agccacgcca	ccgtggcgaa	caggaggacg	cccacgtcga	tcacggcggc	4380
ggctcccgt	cgcccgggc	ggcgtcgccc	cggtcggcgc	gcgtcgcgag	cgcggcgagc	4440
gcgatcagcg	cgagccacac	cgcgaaagacg	gccgccaccg	cgagcggggc	gcgggcccag	4500
agcaagcgcg	ccggcgacac	gaggaggacc	gcgcccagca	gcacgagcac	gagcgcgcgga	4560
tccgccgcg	cggcctctgc	gtcgcgctct	ccgcccattg	gcagaggcta	ctcagggccg	4620
ccgcggctga	atacgtgagg	acgattgacg	caatgcgtta	ttgtggtctc	aatcgagcc	4680
gcggatcggc	ggggcgggat	ctgccgcgga	tgggcagccg	cgagccgccg	atccgcctct	4740
tccgcggcg	gcgcgagcgc	gggtgagcgc	gcgcgatcac	ccgcgctcgg	ccgcgatcgt	4800
ggcgagcatg	tcgcgcgcga	gcgcgcgcga	tcaccgcgtc	tcggccgcga	tcttctcgag	4860
gtgactgcgc	gcgtgctcga	tcacggcctc	gttgcccatg	tcgatcccc	acttcgcgc	4920
gagcgcgggc	cacgccgccc	agcgctcggc	ggcgtagggc	gcgaggccgg	gccatgccgg	4980
accgccggcc	gcctcgaagc	gcgcgatgac	cgcgtcgagc	accgccttgc	cgaaggcgcc	5040
ggcgaagagc	gcgaagtcgc	tcgagggatc	gccgacgtgg	gcctcgggtc	agtcgaggat	5100
ccccgtcagg	cggccgtcct	cgcgcacgag	catgtgcccg	gggtggaggt	cgccgtgcac	5160
cagggcgacg	tggcgcgggc	agcgcgcgtc	gtccgcgagc	cagcgctgcc	accgcgcccc	5220
cacggcctcg	gggggcgaga	gcgtcgagcg	cgtctcgctc	atggcccgcg	cgagggctcg	5280
ccgctcgctg	tcgatggact	tcacggggac	gccggccgcc	tcgatcgccg	cggcgtcgat	5340
gcgctgcagc	gccgcgaggg	cgcccgccat	cgagtcgatg	aacgcggccg	gcggcgccgc	5400
gggatcgacg	tgattccagc	ggacgcccgc	ctcgggatcg	aaggacaccg	ccgggacgtc	5460
gccgagccgc	ggataggcga	tcacctggtc	ggtgtgcacg	cgccagtcgg	gcacggccac	5520
gggcaggtgc	ttgcgcacga	gggccaagac	gcgcgcctcg	acgcggggcg	ccttcaccac	5580
cgcgagccgg	cgcggggtgc	gcacgaccca	cgggacgccc	tcctcgctgc	gggcgtgcac	5640
gacgaggaag	tcgagcccgc	tctggtcgaa	gtcggcgcg	ggcgcgacga	tccggagccc	5700
ctcgcggcgc	gcggcgtcga	ggagcgcgcc	gggggagtcg	agcggcgcga	agtcggagga	5760
ggcggtagg	gaagcgggtg	acgagagctc	gtgatgttcg	gtcatgatcg	cggtcctctt	5820
cgcgcgccgc	cggcagggcg	gcgcgcgtgg	aaaggggaag	actcgcgggc	cgagctcacg	5880
accgatcagg	cgtgcatggc	gtgcatcctc	caggctgccg	ggcgtgagtc	gacgcgcccc	5940
gcgtcttcca	cgtgtcgacg	gaagacaggg	cacggacagg	cacccgcgcg	ctcgccgcgc	6000
cgccccggcg	gtgccgggga	ggcggggagg	acgaggatgc	cgggctcagc	gcagccggag	6060
aaatgccatg	gcccagaggtt	ctcacgcggc	gtcccgcgcc	gcaaccctct	tcgcgcgcgt	6120

ggcgcggcgg	cccgcggtga	tagcatcgcc	cgcattggga	tcgatgagga	gctggcagag	6180
cagcgcacgc	gtacgcggat	cggcccgtgg	tcggtggagc	gcgtgctcgg	ggtcggcggg	6240
atggcgagcg	tctactactg	ccgcccgcac	gacgggtgcg	tggcggcggg	caagctcctg	6300
caccccgagc	tcgccagcat	cgaggaggtg	cggaagcggg	tcttgccgca	ggggccgata	6360
ggcagcgcgc	tcgccgccgt	ggcgcgcgtc	tgcgaggggc	tgccgcaggc	gacgcaggcg	6420
ggggaagcgg	acggcgcggc	ctacatggcc	atggagatgc	tcgaggggga	gacggtcttc	6480
gacgcacatg	tgccgcacgc	gacgctcccg	gtcgccacgg	tgatcgcgct	cgccgagcgg	6540
gtgctcgacg	tgctggacgt	ggcgcacgcc	cacggcatcg	tccaccgcca	cctcaagccc	6600
gagaacctgc	acatcgga	cgacgggcgc	gtgcgcgtgc	tcgatttcgg	cctcgcgcg	6660
gtcctcgatc	cgctgctcga	ggacgtcgcc	ggcgtgccgg	agatgacgaa	gaccagcacg	6720
ggcgtgctga	tcggcaccga	cgattacatg	gcccccgagc	aggccctggg	cctcatccgg	6780
gagatcgacg	gccggacaga	cctgttcggg	ctgggagcca	cgatgttcgg	cctgctcgcg	6840
ggccgcacga	tccacggcaa	cctggaggac	gcgcacctgc	tcacgcgcgc	cgccacggag	6900
aaggcgccgc	cgctcgcgca	gcacgcccc	gccgcgccgc	ccggcctgtg	cgccgtcgtc	6960
gaccgcgccc	tcgccttcct	caagcaggag	cgctaccccc	acgcgcggac	gatgcgcgcg	7020
gacctcgccg	ccgtgcgcg	gggcgcgcg	ccgccgtatg	cgacggccgc	ggcgcggggg	7080
cgggcctagc	gcgcgcggag	cctcggcggc	ggaggcgggc	cgccctcgtc	ccgaggcggc	7140
tcgggtccgc	tcggcgcgga	gagggcgcg	ggaggcgggc	ggctctcgca	ccccgcggg	7200
ctgcgcgagc	ggctcagtg	tccacgcctc	gaacgccgcc	gtccataac	gccgtctggc	7260
gttccgctgg	gtgcggtcgc	atgctccagc	cgtggatcca	ggcgtggcgc	catcgccgcg	7320
gcgtccatcc	tcgccgtgac	ccgcgcgcc	gccggcgagc	cgccatcgac	gatgtcaggc	7380
tccgaggatc	cggatccgga	gctcgacggc	tcgtcgcgcg	gtgttgccct	cgtgcgcggg	7440
ccgttacggc	gcgccgacag	gggcgatctc	gtcgcccatg	cgacaaacag	gtgacgggat	7500
gagctgacac	cccgcagaaa	ccggctcgaa	acacgcccc	ccaaaactcc	ccccgaaaac	7560
aactacatct	gtcaccgagc	gtccgggctc	catcgacgca	acaaatatca	cgtttcggac	7620
tggaaccagca	agcccgcata	cgctcattgac	agaatgtgga	ctccccctat	catatcgctc	7680
caatcgcccc	gccgagctga	agacagcggc	gcagcgggcg	cattgagcaa	cagcccatcc	7740
aggtgaacga	gcggagaccc	gcgtccgaga	cgcgccgact	cgccgcatgt	ggacagctcg	7800
gggtggcggt	cagccgcctg	ccgtctccaa	ggacgggtccg	ctgaacagat	gccgcgcgct	7860
gcgctgtgga	taacgggcgc	gcgcgacgct	ggagcgccct	caccgatcga	agaggaagcc	7920
ccgccgaaaa	gagttcgaaa	aaaatgaagg	atcgctcccc	cgagcggcat	ctacccgccc	7980

gcggcgcccc	gatctcggcg	tcgggcgata	gcttttgtgc	gtagggtcga	ggtgcgcccc	8040
tgccgtgtca	gccattgaca	tcgttgggcg	ctgcctctgg	tcccgtcgtc	atggcctgct	8100
ggctgccgtg	cagcggcgga	cttgcatgga	gaggatgatt	ggaaatcgaa	ggtccagtgg	8160
agcaggacgc	cattgcgata	atcggcgtag	cgtgccgatt	tcccgggtct	ccggactatg	8220
gccggtactg	gcagctgctc	gagcggggcg	agcatgccat	cctcgagata	ccacccggcc	8280
ggtgggatcc	ccgggccccat	tattcccctg	acttcaataa	gcctggcaag	agcatcagca	8340
agtgggtgcg	gctgatagac	gacatcgcca	gcttcgacca	ccgcttcttc	aacgtgtcgg	8400
agcgcgaggc	gaagagcatg	gaccctcagc	agcgcctgct	cctggaagag	gcatggcgct	8460
gcatcgagga	ctccggcggtg	ccgctcgagc	agctccgcgc	ccggaagacg	tccatctacg	8520
tgggcttcat	ggcgacggat	taccaccagg	agtccgcggc	cccggggccg	ccggtcgaca	8580
gctacgccgc	cctggggagc	tacggctcca	tcctggccaa	ccgctctctc	tatacgtcgt	8640
ggctgcgcgg	cgcgagcata	gccatcgacg	ccgcctgcgc	ctcctccctc	gtcgcgctcc	8700
acgaggccag	gcgcgctctc	cagcgagggtg	aaagcgaatt	tgcgctcgcc	gccggcggtga	8760
gcctcaactt	tcataccttg	aagtaagtct	ccttctccaa	gtcgcgcatg	ctcagcccgg	8820
acgggctgtg	caagacgttc	gacgcggacg	cgaacggcta	cgtccccgga	gacgggggtg	8880
gtgtcctctt	gctgcacccc	ctggccaagg	ccatcgctgc	gggatgccac	gtctacggcg	8940
tcgtcgcggg	ctccgcggtc	aaccacaccg	gcaccgcgcg	ttccatcacc	gcgccgcgcg	9000
tcgccgccca	gcgggacgtc	atcctcgagg	cctacgagga	cgcgggctgg	aaccgggaga	9060
cggtgacgta	cgtggaggcc	catggcaccg	gcacctcgct	gggggacccc	atcgagggtg	9120
aagcgctgac	ccaggcgctt	cgcgctaca	cgaccgcgcg	ccagcgctgc	gcgatcgggt	9180
cggtgaaatc	gaacatcggc	cacctcgagg	cagccgcggg	cgtcgctggg	gtcatcaagg	9240
tgtcatgat	gctgaagcac	cgcgtgatcc	cgcggacgct	gcatgtccag	acgtcaacc	9300
cgtcatccg	cttcgaggag	acgcccttcg	tggtcgccac	ccgcgccatg	gaatggcgcg	9360
cggaaggagg	cgagcccctg	cgcgcagggg	tgagctcggt	cggcttcggt	ggcgccaacg	9420
cccacgtcct	gatatacgag	cacggcgggc	cgcgcgcgca	gccccgcccg	cgaggcgagc	9480
tcgcgcggcc	ccgcggcgca	gccccgcggg	gcgagacggc	gggcgctcca	gcggaggacg	9540
gcccgcctgg	ccgcgcggag	gagctccctt	cgcagcagga	ggacgccgcg	gcggacgagc	9600
gcgaaggcac	cgtcttcttc	ctctccgcca	ggtccgcgtc	gagcctgtcg	agggccgtcc	9660
gacgctggga	ggccttcgtc	gacgatcccc	tcgtgaaggc	aggcctggcc	acctcgctcc	9720
gcgatatctg	cgcgaccctg	gccgcgggac	ggcaaagctt	cgagcaccgc	cacggcttct	9780

acatcgacga	cgagcgagac	ctccggcgct	tgctcaagga	accgccggcg	cgcttgaga	9840
agacccgacc	tcctcgctgg	gtgacgcggt	tcggcgcgct	cgccctcggg	cagggcaggc	9900
ccgccgtccg	tctgctcggc	gcgcgcgcgc	tgctcgatcc	tcaccttgac	cgcatccgga	9960
ggtgcctcga	ggagctgggg	atcgagcacc	aggatctccg	gacgtaccgt	caggacggcg	10020
atcccgggcg	ccaggagctg	ccctatgcgt	tcctcttcgc	tcacgcgtac	gtctcggcgc	10080
tcgcggacct	cggcttcacg	ccgtacgcga	ccagcggaga	gggtcacggc	atctggttgg	10140
cgctcgccca	gagcggggtc	ttgccgctga	acgagatcgt	gtcggtgctc	tcggggggcg	10200
gagagctcca	gaggctctcg	ccccggcgtc	ccaggctgcc	gctcttcgat	cccatccatt	10260
ccacctacct	gatgccgtac	ctcctggacg	cgggctacgt	ccgcgcgctc	gtggagggcc	10320
tggcggttcc	ggcagcgacg	ctccgtgacc	tcctcgcgag	ggctcgactc	ctgctccgcg	10380
cgcagttcac	cttcaagaag	ttcctgagcg	agtggtcgcc	ggccttgacg	gccctgggca	10440
cgacgcctga	gcgcctgctc	gaggaggagc	tccccgcgtc	cgacgctcgc	gcctcgctga	10500
tcgcgctcat	cgcgcagagc	tgcgctgcga	agctgaaccg	caggtggcag	ctcacggacg	10560
cgcctcctc	gggagatccg	cggttcgacg	agctcgtcga	cctggtggtc	gacgggctcc	10620
tgccgcgcga	ggcgctcgtg	cagctcgccc	tcggcgatcg	ggcggacctc	cacgagatcg	10680
ccggcaccct	gcaccggcgt	caggacctgc	tcgatctcag	ccagccgtac	ggcatcctgc	10740
ggaggcgag	cgagcgctg	gacccgagcg	agatcgacga	ttttccggc	tggatccggc	10800
agatcgcggg	cctcgaagcg	ccgggcctgc	cgcccgaaga	gggcgtcgcg	ttcctggagc	10860
tcggcaggg	ggcgaggcgc	gcgcagcggg	cgcggggg	agatctgagc	gtcccagcgc	10920
tggacagccc	gctgcagctc	gtcgcgctgc	gcctgtggct	ggaggggact	gacatccggt	10980
ggggagagct	ctttccggag	gggagcttcg	cgaagatccc	gctgcctggc	tatgcgttcg	11040
atcaggcgca	gttctggctg	ccggcagcca	gagaaggcac	gtcccctccc	gaggacgcgc	11100
gcgacgacgc	cgacgcgcga	cacgccgcgc	tcgcgccgca	cggcgcgcg	gaccgggctg	11160
aacgcccctc	gatccccgtg	gaccgcctga	tcgccgatca	cgatcatccag	ggccgcgcca	11220
tcgtgcccgg	cgccctcatg	gtcgagatgg	ccctggaggc	gtcacagcgc	gccacggggc	11280
ggccggcggc	ggtcctgaga	gacatcggtg	tccagcgggc	agttccgctc	gacgcgcacg	11340
cgaacctcac	gatcgatgtc	gaccctgacg	gcgggcgttt	cgtggggaga	gacggcgcg	11400
agggggcatg	ccgtggagcc	tacgggagcg	cgccccctc	tccgctggag	cccctcgatg	11460
cgcgggccc	cgacggcgac	cgcgcgcgcg	acgatagcct	ctaccgcgac	ctttcgcgcg	11520
tcgggtaccg	ctacggcgag	agcctgcagg	tgatcgccgc	gaccggtcgg	gtcggctcgc	11580
gccatgtgtt	cgagctccgc	tccagcgtcg	ctcgcacgac	gcctgtcgcc	ggcttcgacc	11640

cagcgctctt	cgacgggctg	ctccaggcgg	cgctggctgt	ggggcagcgc	ctcgggctgt	11700
tggcgaggag	cggcgcgac	tatgtgcctc	aagccatcgc	gctcgtcgag	cggtcgcctc	11760
cggtggacgg	gggctgcctg	gtctgcatcg	acgagcgcga	tctctcgatc	aaggagtacg	11820
gcctgaccgt	cgacctgcgc	gcctacgac	cgtcgggggc	cggcctgctc	cggttagagg	11880
gcatcttctt	tcgaaaggtg	ctgccgggct	tcgtcgagag	ctccctgcc	agggtagaccg	11940
gcggcgccgc	ggaggcgcca	cgccgcgcg	gagcgggccg	agatcccag	tcggccgcgc	12000
cgcgagcagc	gtgctatcag	ccgtctggg	agcgacggcc	gctcccggat	cgggcgggg	12060
cacccccgcg	tggctgcgcg	gtggcgatca	tccgctccga	ggcggactcc	gcagcctggc	12120
tctcgcccct	gcgagcgcgc	tattcacagg	tcacggtggc	gcgcctcggc	agcccgcgcg	12180
gtgaggcggg	cgaagatcgg	ctcgtcctgg	gcgacgatcg	agaggagggc	ttctccgagc	12240
tgggtgcgcg	ggcggagaga	gcggccgcg	gcgaggccgt	cgacatctac	ctcctggacg	12300
cgctgacgcc	cgacgcccgc	gtcccctcgc	gcgcgcctgc	ggcgtcgcg	ccggcgctgg	12360
gccccgcga	agaggccgcg	gcgcgcagcg	cgttcctgct	ggccaaggcc	ctggtgaaga	12420
gcgcggcgcc	gtggcgccctg	gtcatcgga	cgcggcgctg	ccaggccgtc	gtgcccggag	12480
accggggcga	agggttccgc	cacggggtgc	tcgccggcat	ggcccggacc	ctgacgcagg	12540
agaaccgcg	ggttcaggtc	cacctggtgg	atttcgacgc	cgctcctcca	ctcgcgatgcg	12600
ccggccacct	cgtcgaggag	tgcggtgtgc	tcggcccggg	ggactgggta	gcctaccgcg	12660
acggcgcccc	ttacgtccgc	gcctttgcgc	cggtcgagga	gcccggcgcg	acggccacgc	12720
cgccgttcca	ggacggtcgc	gtctatctgc	tggctcgggtg	cgccggcggg	ctcggcctcg	12780
gcctcgcggg	gcacatcgcc	tccggggcgc	atgcgcgcct	ggtcctgctc	ggccgctctc	12840
cgctcggcca	cgaggcggag	cgccgcctgg	cccgcctgcg	cggcgacggc	ggcgagactc	12900
tctacatcag	cgcagatgtc	agcgatccac	agcagtgcga	gcaggccctg	gcggcggtcc	12960
gccagcgatt	cggcgccatc	cacggcgtgg	tgcagatggc	cggcgtggtc	gaggacaagc	13020
tgatcgacag	caagacctgg	gagtcggtcc	gacgagagat	ggcgcccaag	gtgcagggga	13080
cctggctatt	gcacgagctc	accgggcgcg	accctctcga	cttcttcgtg	accttctcct	13140
ccgtcgtctc	cctgctggga	aaccacggcc	aggtgggcta	cgcagcggcc	aacgggttcc	13200
tcgacggctt	catccaccac	cgggccccga	ccggcgccgc	gggcaggagc	ctcggcggtga	13260
actggacggt	gtgggaggac	ggcggcatgg	gcgcggctcc	cgggatcgtg	cgccggttct	13320
cggcgcgcgg	gctccctccc	atccggcagc	acgacgcctt	cggcgcgctc	gaacggttga	13380
tgaccggcgg	acggtcgccg	caggcgctcg	tcctcgcaga	gcccgcagag	cacctcttcg	13440

cgagagcttc	tacacgacct	gctccccacg	cggtcgctcc	cgatccggag	cgcggcgac	13500
gcgagcaggc	ccgagacaag	gaacagggttc	ggggagacgc	gagcatgaca	cgtactacgg	13560
ctaatacctca	cgggacggcg	cctgcagggg	caggacagga	cgggcggcgt	atcgcccgga	13620
tcgaggagga	tctccggcgg	ctcgtctccg	ccaggatcga	ggctccgctg	caagcggtcg	13680
acgcggaaga	gtccttcttt	tcgctcgggg	tcgactccgt	ggctcttcaa	gagatcacgg	13740
agacgctcga	gcgcacctac	ggctccctgc	cgcgcacgct	gctcttcgag	aatccgaaca	13800
tccgccagct	ggcgcggtac	ctcgcgggagc	gcgtccccgc	gaggtcggca	gccccgcgg	13860
aggtggagcc	ggcgcgaggc	cccgccagcg	ggcccgcaga	ggcgccgcct	gccgcccgag	13920
cggccgtgcc	cctccccgcg	ccggagccgc	ctggcgaggc	cgcctccccg	ggcgcgcggg	13980
tggctgccgt	cgcggccggc	caggagcacg	acacgccggg	cgcgccctcc	accgcgcgcg	14040
cgcgccgcga	gagcccgtcc	gatggccctg	cgatcgcgat	catcggcgatg	agcgcgcgct	14100
tccccaaagtc	ccccgatctg	gacgcgttct	ggcagaacct	gctctcgggc	cgggattgcg	14160
tcgacgagat	ccccgccgag	cgctgggacc	accggcgcta	cttcgccgag	gcggcgcgagc	14220
cccacaagac	gtacggggcg	tggggcgggg	tcacgcagga	cgtcgaccgc	ttcgaccoga	14280
tgttcttcaa	catctccccg	cgcgaggcgg	agcagatgga	tccacagcag	cgcctcttcc	14340
tggagtgcgc	gtgggcgacg	atggagcacg	cgggatacgg	cgaccgcgcg	gcgtacggcg	14400
accgcgccgt	ggggttgttc	gtcgggggtga	tgtggaacga	atacagccgc	atcggcagcc	14460
agctcaccct	gcagaccgcg	cgctacgcgg	ggccggggtc	gctctactgg	gccatcgcca	14520
accgggtctc	gtactggatg	aacctcaccg	gtccgagcct	ggccatcgat	acggcctgct	14580
cttcctcgct	ggtcgccgtc	catcaggcct	gcatagacat	tcgcaacgga	gagtgcgaca	14640
tggccatggc	cggcgggatc	aacctctcga	tccaccccga	caagtacctc	tacctggcgc	14700
agtcgaagtt	cttgctcgtc	gacgggcgct	gccgcagctt	cggccagggt	ggcaccggct	14760
acgtgcccgg	cgagggcgtc	ggcgccgtcc	tcctcaagcc	gctggagcag	gcgctgcgtg	14820
acggcgatca	cgtctacggc	atcgtgcgcg	gctccgcgat	caaccacggc	ggccgcgcca	14880
ccggcttcac	ggtccccgat	ccggaagccc	aggcgaggct	cgtgttcgac	gccctgcgac	14940
gcgcgcgcgt	gtcccccgat	cagctgagct	acatcgagtg	ccacggcacg	ggcacggcgc	15000
tcggagatcc	cgtcgagatc	gccggtctca	gcaaggcggt	ccgcatggcg	ggcgccaccc	15060
gcacgagcat	ccccatcggc	tccgtcaaata	ccaacctggg	ccacctggag	gccgccgcgg	15120
ggatcgccgc	gctcatcaag	gtcctcctgt	gcatgcagca	ccaggcgatc	ccgaagagcc	15180
tgcacagcga	cgtcaagaac	cccaacatcc	gcttcgagga	ggtcccgttc	gaggctcgtga	15240
acgagacgcg	ctcgtggcag	ggggacggcg	gggcgccccg	ctttgccggc	gtgagctcct	15300

tcggcgcggg cggtccaac gcccatgtca tcctcgagtc gtacgagcct catgtgcgcc 15360
 tcagcgcggg cgacgacgcc gcggagggag gagccctcat cgtgctgtcc gcgaaggacc 15420
 gcgagcgccct cgacgccctc gcgggacggc tgagggattt cctgcgcgag cgggcaggcc 15480
 gcgccccctc gctgagcgac atcgccctaca cgctgcagct ggggcgccag cacatggatc 15540
 atcggttggc gatcgtcgcc gccagccggg aggatctgct ggccaagctg gacgccgtgc 15600
 tcgctggccg cggcgaggtg cccggcgcggt tccggggcga tgtccacggc gacaaggcgg 15660
 cttccctcgc catggacggg gacgatcatg accgcgagta cctggagagg ctgcgccgcy 15720
 accgcaggct ggacaggctc gctcgccctct ggctgctggg gctcagggtc ccgtgggagg 15780
 agctccaccg agatcgcggc cgcaagcggg tcgccctgcc cacgtacccc ttgcgccgcy 15840
 agcgttactg gctgcctgac gtggagagct cgatcaccgc cgcggcgccg gtcgaggccc 15900
 ccgcgtcgga gcaggccccc gcgccccggg gggagaaggg ccttcggaa gacttcttct 15960
 tccacgagca atggtccgtg gcgcgcgtgg atcctgcgac gggctcggac ggcgtcgcg 16020
 tccggtccgc gctcgtgatc tacacgccg aggtgaagc gtcgccgac gcgctgatcy 16080
 cgaggcacc cggcgtcgc gtcgccgta ttctcctcgg cgccggccag ggggcgaagg 16140
 ggcgcccccg cccggaggcc cggcgcgctc ggcttcccc cgcgcaggag gttcaggccg 16200
 acgatcctgc cgccctcgag cggcgccctc gcgagctggc cgccgccggc gtcgccccgc 16260
 tcgacgccat ctacttctc ggcggtctgg ccgcacagga gcccgcgcg ggcgacctgg 16320
 aggcgtgga gcgcgccag cagcgtgggc tgctctcgt gtttcgcctg gcgaaggcgc 16380
 tgggcgcctt gggcctttcg tcgtcgccct gccagctgaa gatcatcacc aacgatgctt 16440
 gctcggtgcy gaccggagat cccgagcgcc cgctcgccgc gggcctgtac ggctggctc 16500
 gatecatcgc caaggagtac ccgcgcctca acgtcagctg catcgacatc cagactcgag 16560
 cgctgagcca cccggccgat gaggggctca tcagcgcggt gatcgccgag ccaggtcacc 16620
 tccgcggccg agaggtggcg ctgcgggacg gcaagcgctt ccagcgcacg atggccgcct 16680
 tgccgtgca gccgcggcg agggatcctt accgtccagg cggcgtgtac ctggctcttg 16740
 gcggcgccgg tgggctcggc cacctgttca gccagcacct cgcagggacc taccgcgctc 16800
 ggctcgtgtg gatcggccgg cgccccctcg aggcgacat ccggtcgcgc atcgccgacg 16860
 tcgaggcgcy cgaggcgag gtcctctatc tccaggccga cgccggcgac ccgagctccc 16920
 tgcgcgctgc cgtctccgc gccaaaggcg gcttcggcgc gatccacggg gtcattcact 16980
 ccgcggtcat cctcgggagc caccctatcg ccaccaccga cgaggccacg ttgcgcgccg 17040
 gagtccgcgc caagatcgcc ggcagcgctc cgctccacca ggcggtcgcc gacgagcccc 17100

tcgatttctt	gctctatttc	ggatccatcg	cctcctacct	caacaacggc	ggggccagcc	17160
cgtacgccgc	cggctgcacg	ttccaggaca	ggtacgcggc	attccagcgt	tcccgcgtgc	17220
cctaccgggt	caagctcatc	aactgggggt	actggggcga	cgtcggcgcg	gtcgccggca	17280
acaccgagac	tcatgaccag	cagttcaacg	ccatcggcgt	cggggccatc	gcgcccaggg	17340
acgggatgga	ggcggcgcg	cgcgtcctcg	cgcagcgcct	gccccaggtg	atcgcggcgc	17400
agctcacgcg	cccgccecaa	agcctcttcg	gctacgacct	gagccacgag	gcgaccgtcc	17460
acccggagcg	cttcgagccg	ctgctcgagc	ggagcgtgcc	gcgcatccag	cccggcctca	17520
gcgcggtccg	cgagctcctg	acgcatcagc	ccgcgttcga	cgcgctggag	cgcttcagcg	17580
aggatctgct	gctctgcata	ttccaggaca	tgggcgcgtt	ccagcgcgcc	ggcagcgcgg	17640
aatcggcggc	gaccctgcga	gaacggctgg	gcgtcgcggg	ccgcttcggc	cggctctacg	17700
actccctgct	cgcgatcctc	gagggggccg	gttacctgcg	catcgaagga	gatcggctgt	17760
tcacgagcga	acgggtgacg	caaagaagc	acgaggtgga	acggcggatg	cagcagctgg	17820
cggatctgcc	ggcgatcgcg	ccgtacgtcc	gcttgctctg	ggcgtgctat	cggcgggtacc	17880
ccgagctgct	ccgcggtcag	gtagccgcga	cggacgtgct	cttcccgcag	ggctcgatgg	17940
atctgatggg	gccgctctac	aagggcaacg	ccacggccga	ccatttcaac	gagctggtca	18000
tcaagagcct	cctcgtgttc	ctggacgccc	gcgtcccgcga	cctgcgagag	ggcgagaaga	18060
tcacgatcct	ggaggtaggg	gctgggacgg	gcggcaccac	cgcgtccgtg	ctcgaggcgc	18120
tctcctccca	tgcgcgccac	ctcgagtact	tctataccga	catctctcac	gccttcacgc	18180
gatacggcaa	gcgccagtat	ggcccgcgct	accccttcgt	caccttcag	cccctcgacc	18240
tcgaggggga	cgtggtggcg	cagggcttct	ccgcagagcg	cttcgacgtg	gtgctgggcg	18300
cgaacgtcgt	gcacgcgaca	aagaacctgc	gcagcacgct	gcagagcatc	aagcggctcc	18360
tcaaggcgaa	cggctggctc	gtcctgaacg	agatgacccg	cgtcgttcac	ttcctcacgc	18420
tctctgcggg	tctcctggac	ggctggtggc	tcttcgaaga	cgccgccgag	cgcatgaaat	18480
ggtccccctct	gctcagctcc	ccgatgtgga	agggcctgct	ggaggaagag	ggattccgcc	18540
gggtcgctcc	tctccagcac	agcgacggca	cgtcctcctg	gtcgatccag	aacgtgatcc	18600
tcgccgagag	cgacggcgctg	agccgaagcc	ggcggaccga	gagcgccgct	ccgcggccag	18660
cgcgctcggc	cacgagcgcg	gcggcggcgt	ccgaagcgct	cccgcccgcc	ccgtccaccc	18720
ccgccgccga	gccggtcgcc	gcgttcgggc	cgatgtccct	gcaggccgctc	gaggacaaga	18780
tcatcgatag	cctcgcgagc	acgctgcaga	tcgacaggtc	caagctcagc	tcggacgtgc	18840
cattcacgac	gttcggggtc	gattcgatct	tcgccgtgga	ggtcgcccgc	gtgatcgggc	18900
gcgagctgag	catcgatctc	aggaccacgg	ccctgttcaa	ctatcccacc	gcgcgcgcgc	18960

tcgccgagca	catcgccgcg	acgttcgccc	ccagcgaggc	ggccccggcc	agagcgcccc	19020
aaccggcggc	gcagccgcgg	gagcagctcc	cctcgagccc	gccgcagccg	gcgcccggag	19080
cgccgcccgcg	gccagcgag	gccacgtcgc	aggtccaggc	gccggcgccg	gagcgtccgc	19140
cggcgccgca	gccggccggc	gcccagcagc	gggtccggca	gctcgccctg	ggtgccctcg	19200
ccgaggtgat	ggcgatcgac	gtgagggagc	tcgatccgag	cgcgaccctc	gccgagtgcg	19260
gcatcgacgc	tcagcaggcc	gtcgtggtgg	tgagccgcat	gaaccaggcc	ctcgggacga	19320
gcgccaccgc	catggatctc	ctccgatgcg	ggaccctcgc	ggacttcgtg	gaccacctcc	19380
tcgctgcctc	gcccgcgccc	cgcccggacg	cggagacccg	ccccggcacc	gccgcggcgc	19440
tcccggcgcc	cgcgccccct	gcggcgatcg	agcccaggtc	cgcccggagc	acggacatcg	19500
cgggtggtggg	catgtcctgc	cggctgccgg	gcgccgagac	ggtcgccgac	ttctggcgga	19560
atctctgcga	gggtcataac	gccatacggg	agatcccgcc	tgaccgctgg	tccctcgatg	19620
ggttctacga	tcccgaaccc	agcgtcgctg	cccgagcta	cagcaagtgg	ggtgggtttc	19680
tcgacaacat	cggcgacttc	gaccgcgtct	tcttcggcat	ctcaccgctg	gaggcggagc	19740
tcacggatcc	gcaacaacgc	ctctttctcc	aggaggcctg	gaaggcgctc	gaggacgccg	19800
ggtacagcgc	cgaggcgctg	agcgggcagc	ggtgctgcgt	gttcgtgggg	tgcaaggacg	19860
gggattacgt	ctacaagctc	ggcccgtcgg	cggacgcctc	ctaccggctc	atcggggaaca	19920
ccctgtccat	cctcgcggcc	cgcatctcct	attttctcaa	cctcaagggg	ccgagcgtcc	19980
ctgtcgacac	cgcttgctct	tcctccttga	tggcgatcca	cctggcctgc	cagagcctga	20040
tcagcgggtc	cagcgacctc	gccgtggccg	ggggcgtcgc	cctgatgacc	acgccggtga	20100
gccacatcat	gctcagcaag	acggggatgc	tgtcgcccac	ggggagctgc	cgcacgttcg	20160
acgactccgc	cgatgggctg	gtccccgcgc	aggggggtggc	cgccgtcatc	ctgaagccgc	20220
tcgacgccgc	cctgcgcgat	cgcaaccaca	tctacggggt	gatccgcggc	tccgaggcga	20280
accaggacgg	caagagcaac	ggcatcacgg	cgcccagcac	cccctcgag	gccgccctgg	20340
aggtcgaggt	ctaccgcaag	ttcgggggttc	accggagac	catcggttac	gtcgagaccc	20400
acggcaccgg	caccaagctg	ggggacccca	tcgagatcca	cgcgctcacg	gacgcgttcg	20460
ccgccttcac	cgacaagaag	gggttctgcc	cggtcgggtc	cgtgaagacg	gggatcggcc	20520
acacgctggc	agcgtccggg	gccgcctccc	tcacaaaggt	gctctgctgc	ctccagcacc	20580
gcacgctcgt	gccgtcgctc	cactatgacc	ggcccaacag	gcacatccac	ttcgagaaca	20640
gcccgttcta	cgtcaacacc	gcccggaggc	actgggcgca	cgccggcgat	ctcccgcgcc	20700
gggcggcgat	cagctcgttc	ggcatgagcg	gcaccaacgt	gcacctcatc	gtcgaggagg	20760

cgccctccgga ggccgacgcc accgcgcccc cggtggcccc ctataccctc atcccgatct 20820
 cggcgaaggc gccggcgccg ctccatcgca ggggtggcgga tctggccgcc tggctcgacg 20880
 ccggcgggcg cgaccgcgag ctgggcgata tcgggtacac cctggggcgtc ggccggagcc 20940
 attttccccct gcggctcgcc ttcgctcgcg gcgacacgcg cgacctgcgc cgccagctgg 21000
 cggcgtggct cgcgcgccac ccgaccgcgg acgacgtgcc ggcgccggcc gcgcggccgg 21060
 agcccgcgct cggccagacg gcgggcccgc tggcgagcga gctccgcgac gcgccccgc 21120
 tcaccgccga cgcgtaccgt gagaagctgg aagccctggc ccacgcctat gtggcaaagc 21180
 acgatcctga gtggcagtc ctgttcgcgg gtcaggatcg acgcctgac tcgctgcccc 21240
 cgtacccggt caacaaccgc cggttctggg tggacgagcc ctcgcggtac gggctcgatc 21300
 acgcgcgccc ggccgccagc gcggcgccgg ccgcgcggcc ggagcccgcg ccggccgcgc 21360
 gcctcgcgcc gccggcgagg cagccggggc acggagaccg gcgagcagat tcgctccttt 21420
 atttcagatc ggccctggaa accgcagagc acgaggctgc cgcgggccag ctccgcgctc 21480
 cgatcctgct cttcgacgac ggcggcgccc tgcgcgagcg gctgctggac agcgaccgcc 21540
 ccgtcatcgc cgtcacgccg ggccccgggt tccgcgagct gggaggcggc cgctacgagc 21600
 tgaaccccgg cgacgcggcg gattacggcc gcctcgtcgc cgctgcaag cagcggggcg 21660
 cgctgccgcg cgaggctgtg tacctgtggc cgctcgcgcg agctcaggcg caggcggagc 21720
 cgacggcgcc cttcttcag gcgacctctc tgtgccgcgc gctcgccgac catcgccccg 21780
 cgcaaggcga ggctgtccgc atcctgtacg tctactggca ggacggggat cggctggacg 21840
 ccagccatgc agccatgagc ggccctggcc gcagcctgca gctcgacctt ccgcacctcc 21900
 actggaagac gctcggcctc gagccgcgga ccgccgacgg cgcgctgtgc gatctcgtec 21960
 tcgccgagct gctcgccccg ccgcagggcg cggtccgcta ccagcggggg caccggcaga 22020
 tccagcggt ccagccgtgg cgcgccgagg gcgaggcgag cgcgcccttc cgcagcaaag 22080
 gggctctatct gatcaccggc ggcgccggtg ggctgggagg cctgttcgcc gagcacctcg 22140
 ctgcgcccca tcaagccagg ctggctcctgt gcgggcgctc tcccttgacg ccggccggcg 22200
 acgacctcct ccgccgcctc gccagctcg gcgcggaggc ggtctatgtg cgggccgacg 22260
 tcgccgatcg cgaggacgtg ttcgcgctgc tcgggcgcgt cgaggcccgg ttccggcgcg 22320
 tccacggcgt cctccacagc gccggcgta ccgccgacgc gagcttgcg aacaagagcc 22380
 gtgaccagat ggtcgccgtg ctcgcgccga aggtgctcgg caccctgcac ctcgacgacg 22440
 ccacccgcca tcgagagctg gatttctttg ccctgttctc ctccgtcacc gcggctcatg 22500
 gcaacatggg gcagacggac tacggctacg ccaacagctt catggaccac ttcgcggcct 22560
 ggcgcgaggc cgagcggcag agcggacgcc gcagcggaag gaccgtgtcg atcaactggc 22620

cgctctggcg	agacggcggg	atgagcgtct	cgcaagagat	gcagacgctg	ctcacgtcca	22680
ccctcgcat	gagcgcgctc	tcgagcgacg	cgggcatcca	ggccttcgag	cgcgccgtgg	22740
cctcggcgca	ccccaggtc	gtggtcctcg	ccggtgacga	ggccaagatc	caggagagcc	22800
tcggcatcgc	ggccccgacc	ccgcccgcgc	gcgcgctccc	ggggtcgcac	ggcgcccctc	22860
ccgcggctcg	cgcgaggcg	ccccccgcgc	gcagcgcgct	ggcaaagcag	gtcgaggagc	22920
tcctgctgca	ggcggctctc	ggggtgttga	aggctcgctcg	cgaagagctg	aattacgatg	22980
cgccgctgag	agattacggg	ctggagtcca	tcaacgtcat	cgccctcacc	aaccatctga	23040
accggaccta	cgcgctcgac	ctcaagccgg	tgcggttctt	cgagcacgag	acgctcgccg	23100
cgctgggcgg	ttggctatgc	gaggagcgcg	gggagcacct	ggctcgacgc	ttgggcccct	23160
cgcgcgcgcc	cgaggccggg	ctccccgctg	cccccgcggc	gccccccgag	cccgcgcagg	23220
ccgccccggc	gcagccggcg	aaggagcccc	cggcacggag	cgcgcgggcc	gccgagcgcg	23280
tcccgcggga	ggcgcccctc	gcccgggctg	aacgggggat	ggcggcccac	gagcccatcg	23340
ccatcatcgg	tatcggcggg	gccctgccga	agtccagcga	cctgagcgcg	ttctggcagc	23400
acctcgtgga	cggccgctcc	ctcgtctccg	agctgcccgc	cgatcgctgg	gactggcgtg	23460
cttacgacaa	cggcgacgcg	aatcggaagg	ggctgcgctg	ggggagcttc	tacgaggaca	23520
tggataagtt	cgatccgatg	ttcttcgggc	tctccccgcg	ggaggccgag	ctgatggatc	23580
cccagcaccg	cgtcttcctc	gagaccgtgt	ggaaggccat	cgaggacgcc	ggatacaggc	23640
cctccgatct	ggcgaggagc	aacaccggcg	tcttcgctcg	cgcgctcgctg	ctcgactatc	23700
tcgagctgat	gaacggacac	cggacggagg	cgtacgccct	caccggcacg	ccgcactcga	23760
tcctggcgaa	ccggatctcg	ttcttgctga	acctgcacgg	gccagcgag	cccatcaaca	23820
ccgcctgctc	gagcgcgctg	atcgccgtcc	accgcgccgc	ggagaccctc	cgcagcggcg	23880
cctgcgatct	ggccatcgcc	ggcggggtea	acgcgatcct	cagccccgcg	acggccctgg	23940
ccatcgcgaa	ggcaggcatg	ctgagcccgg	acgggaagtg	caagaccttc	gatcggagcg	24000
cgaacggcta	cgtccgcggc	gagggggccg	gcgcgctgct	cctcaagccg	ctccgcgcgc	24060
cgctcgccga	cggggatcac	gtctatgcga	tcctgcgcgg	cagcgccgag	aaccacggcg	24120
ggcgcgccaa	ctcgctcacc	gcccccaacc	cgcgggcccc	ggcggatctc	atcatcgcgg	24180
ccttcgcgcg	ggcgggcgtc	gatccggcca	ccgtgggcta	catcgagacc	cacggcacgg	24240
gcaccgccct	cggcgatccc	atcgagatca	acggcctcaa	gacggccttc	gagcagatct	24300
acaaggatca	tggccggccg	ccgccgcagg	cgccgcactg	cgggctcggc	tcgggtcaaga	24360
ccaacgtcgg	ccacctggag	gcggccgcgc	ggatcccagag	cctcttcaag	gtcctcttgg	24420

cgatgaagca	ccgcaagctg	cccgggactc	tccacctcca	cgacctgaac	ccctacatcg	24480
agctcgaggg	cagccccctt	tacatcgtea	ccaggacgga	ggactggaag	cccgtcttgg	24540
acgccgacgg	ccgccccctc	ccgctgcgcg	ccgggatcag	ctccttcggc	gtcggcggtt	24600
ccaacgcccc	cctggctctc	gaggagcacc	acgacgagcg	cgccgaggag	ccgtccgcgg	24660
ccgaggtccg	gcgcgccctt	catctgatcg	tcctctccgc	gaagagcgag	gagcgccctc	24720
acgcgtatgt	agacgcgttg	atcgccctacc	tccgcgacac	ggcgccggag	cgccggccgt	24780
ccctcgggca	catcgcgat	accctgctca	ccggtcgtga	cgtcatggac	gcccgcctcg	24840
cctgcgtggc	gaccgacacg	gacgacctcg	tcacccggct	ctcccgttac	cgggccggcg	24900
agagcgcggt	ggacgggctg	ttcacccgtc	ggagcgacgg	gagctccagc	gcggcgggccg	24960
tgctcatcga	gggccaagag	ggccagcagt	tcgtcgaggc	gctcctccgc	aaccgcaagt	25020
gggcccagat	cgctcgcttg	tgggtcgccg	ggcgacacgg	gatcgactgg	tcctctctgt	25080
tcgacggcga	gcgcgtgcgg	cgcggtgcgc	tgccgacctc	ccccttcgcg	cgggagcgat	25140
actgggtgcc	tgacgagatc	ggcaaggagc	acgccgggaa	cggcgcgcgg	cccgcgcgtc	25200
acggcaaggc	gcacaacggt	gccgccgagg	gcggcgcccc	tccccgggcc	agcgcgggga	25260
gcacgctgcg	cccgcgctc	gacgctgcgc	gctcgagccc	cgagcgggcc	gtcttccaga	25320
aggagctgga	ggccgacgcc	ttttatctga	gagatcacgt	catcgccggc	aacatcatcc	25380
ttccggggcg	ggggcacctg	gagctcgctc	gcgcggccgg	tgagctcgcc	ggcgacgac	25440
cggtgcgcgt	catccgggac	gtcctgtggg	caaagcccat	cctgctcgac	ggaccggggc	25500
tcgatgtgca	ggtggcggtc	agccatgacc	gtcagggcgc	cgagtaccag	atccgccacg	25560
agggcgaggg	ccgcgaggtc	ctctactcgc	gcggaaggct	ggcctacgag	ccggctccgc	25620
gccgcgacgg	cgagccggag	cgccgcgacg	tgaaggcgat	acggtctcga	tgccacgacc	25680
gcaaagatca	cgacacgttc	taccgcgggt	atcgagaagc	cggttccgg	tacggccctt	25740
ccttccgggt	cgtccaggag	gcctggggga	acgagcgcg	gtccttggga	gcgctcgctc	25800
tgccagacca	cctgcgcgag	gggttccgc	agttcggcct	gcacccctgc	ctgctggacg	25860
cctccctgca	atccatcacc	gggatgcagc	tcgacgccgg	ccgcgacgcg	ccctccatga	25920
gcacccctt	cgccatgggc	cagctggaga	tcttcggccc	gctgcctccc	gtgtgctacg	25980
cgacgcgac	cctgggctcg	cgccgcggcg	aaggggcgcg	cgagatcgtc	aagtacaacg	26040
tcgcggtcct	cgacgaggac	ggcctcgtgc	tggcgcgcat	cacggacttc	agcgcgcgcg	26100
ccttcacgaa	cgaccagccg	cgcagcccag	ccgagcaggc	cgtgcgcggc	ctcggtctatt	26160
accaatcgac	ctggaccaga	agcgcgcttt	gaacgtcggg	gtaacctcat	gtccagcact	26220
ctccgccaca	cagacaccat	cctcgtcctg	ctgcccgcga	gcgcggcggt	cagcgggctc	26280

gacgagcgcc tggtcgcgca ggtatccgat ccgcaacgcc tcgtcttcgt gcaggccggc 26340
gagcgcttcg cctcgatcga tccgcgacat taccgcgtcg atccggcgcg cccggaggat 26400
tacgtccggc tgttctcgga gtcgagcgc agcggcgcg tgcccacgca tatectccac 26460
gcgggcaact gcgtcggccc gagcgcgctg ggggctggcg agcgcgacgc gttcgcgagc 26520
atccgcgagc ggctaggcca ggagctggag cgcggcctgt acgcgaccc ctcgctggtc 26580
caagccaagc tggccgtcaa ccccgctggc cccacccgct gcgtgttcgc gttcacgacc 26640
gacgaggccc acccgcgccc gcaccacgag gcggtgggcg gcctggcaaa ggccctcacg 26700
acggtcgatc atcgcttcca gtcgctcacc gtgcagatgg acgcgtgcga cgcggacacc 26760
gcggcgcgcc gcctcatcga ggagctgacc tcgcctcacc accagaatgg cggcgagggtg 26820
cgctacaggg gcggggagcg gttcgtacac gaggtgcagc ggctggagcc cgcgcccag 26880
cggggagagc cgcggcgccg gctcccgctg cgcgcccggc gcgtgtacct cgtgaccggc 26940
ggcgggcgcg gcctggggat gctgttcgcc cggcacctgg ccgtgaagta cggcgcccgc 27000
ctggtcctca gcggccgcgc tccgctcgac gacgacaagc gcgcgaagct ccgcgagctc 27060
gaggcgctcg gcggccgcgc ggcgtacgtg cccgcggacg tgggcgacga ggccgagacg 27120
cggcgccctg tctccgccgt ctccgcggag ttcggcgagc tccacggcat cttccactgc 27180
gctggagtg ccgatcgac gccgctcgcg agggccaacga tcgcagattt cgagagggtg 27240
ttgcgcccc aagtgacagc cacgctccac ctgcacctgg agaccgcga ccgcgatctc 27300
gacgtcttcg tcctgttctc gtcgatctcg gcgctggctg gcgacttcgg cgcgggcagc 27360
tactccgcgg cgaactgctt cctcgatcgc ttcgccgacg cccgcgagca gctgcgacgc 27420
agcggcctgc gccgcggcca gaccctgtcg gtcaactggc ccctctggca ggacgggggc 27480
atgaggatgc aagagcagga caaggccatg tacttccagt tctccggcat gggggccctg 27540
gaagcggccg agggcatcga ggccttcgag ggcgcctcc gggccgggcg gcccagctg 27600
ctcgtggtca ccggcgaccg caagaagatc gaccgcatcc tgcaggttcg cgagccgcgc 27660
tcggcgccg ctccacgcga agagccgcag cggcccgcgg ccggaggcg cgcgccgcg 27720
gccgcgagcc atccggggtc gagcgagggc cgaggcgcc cggggggaga gcggtccagc 27780
tcagcgccgc agggctcgcc gcgcgcagcg acgcgaggcc cgtgccacg agagcagctc 27840
ctcgcgcagt gcagagacta cctgcgcaat ctgatcgccc aagccacaaa gctccccgtc 27900
gacaagatcc acgcggacag ggatctggag gactacggca tcaactccct catgatcatg 27960
gagctcaact ccattgctga cagggtttc gacgcgctgc cgcgcaccct cttcttcgag 28020
tacaagaacg tcgccgagct cgcgccttc ttcgccgacg agcacgggtc gcggtgcag 28080

cagatcctcg	cggggggcac	ggactcgagc	ccggacgcga	cgccgcccc	tgaggagcag	28140
ccgccggcgc	cggagcccga	cgcgggggcc	gccctcgcg	cagcgccggc	gcccgcctcg	28200
cgcccgccgc	ccgcagcgct	ccgtcaggac	gacgggcaca	tcgccgtgat	cgggtacggc	28260
ggccgcttcc	ctaaggcgga	cgatcccag	gcgttctgga	ggatcctcaa	ggaggggac	28320
gactgcatca	cggagatccc	ccgcgagcgg	tgggactggc	gcgcgtacca	cgacgacgtc	28380
ccgggggacgc	cggggaagat	ctattgcaag	tggggcggt	tcatcaacga	cttcgaccgc	28440
ttcgatccgc	tcttcttcgc	cctctctcgc	cgcgcgccgc	acagcatgga	tccgcaggag	28500
cggctgttcc	tgacggtcgc	ctgggagacc	ctggagcacg	ctggctacac	cctcgatcgc	28560
ctgaaccgcg	ggtccgacgg	gccccccggc	ggcgcgggcc	gccgcaaccg	ggtcggcgtc	28620
ttcgcgggcg	tcatgtggag	cgactacggc	aagcacgggc	aggacgagct	ccacaaggga	28680
aaccccgatga	tcgcgagcgc	cgattactcg	tcgatcgcca	accgggtgtc	ctacgcgctc	28740
aacctgcacg	gccccagcat	cgccctcgac	acggcctgct	cgctcgcgct	cgtcgccatc	28800
cacctggcct	gcgagagcct	ccggcgaggc	gagtgccact	acgccatcgc	cggcggggtg	28860
agcctctcgt	tgcacccgcg	caagtaacct	cagatgagca	acctgaaggc	cctgtccgcc	28920
gagggcaagt	gccgcagctt	cggcgccggg	ggcgccgggt	acgtgcccgg	cgagggcgcg	28980
ggcgcgctcc	tcctcaagcc	gctgcgtcag	gccatcgccg	acggcgacta	catccacgcc	29040
gtcatcaggg	gcaccgcggt	caaccacgac	ggcaagacca	acgggtacac	ggtcccgaac	29100
ccgaacgcgc	aagccgacgt	catctctcag	gcgctgcggc	aggccggcgt	cgacgcgcgc	29160
acgatcagct	acgtggaggc	ccacgggaca	ggcaccgagc	ttggcgatcc	gatcgagggtg	29220
accggcctgt	ccaagagcta	ccggaccgac	accaaggaca	ggcagttctg	cgcgctggga	29280
tctgcgaagt	ccaacgtcgg	ccacctggaa	ggcgcgcccg	gggtcgccgg	cgtgatcaag	29340
gtgctcttgc	agatgaagca	caagcagatc	gctccgtcgc	tgcatcgcg	ggagctgaac	29400
cccagcatcg	atttcgcgag	ctcgcccttc	aaggcccttc	aggagctcag	cgctggggag	29460
cgaccgcgcc	tcgcgcggcc	ggacggcgca	ggagagatcc	cgcgacgggc	ggcgctcagc	29520
tccttcggcg	ccggcgggac	gaacgcgcac	gtcatcctgg	aggagttcga	gaacgcgccg	29580
cgcgcgacat	cgggtcggga	ggacgtcctc	gtggtgctct	cggccaggag	cgaggagcgc	29640
ctgcgcgcct	acgcgggcaa	gctcgccgcg	tccttgacgc	tgcggtcgc	cggcgaggac	29700
gccgccgagc	acctcgacct	cgagcgcac	gcctacacgc	tgacgaccgg	gcgtgaggcg	29760
atggattcgc	ggctcgccat	catcgccctc	gatcctcgac	agctcatcgc	cgacctggag	29820
gcctacagcg	aaggccgcct	ggacgacaag	ggccctcgct	gcttctccgg	cacggtcaag	29880
ccctatgagc	tgccggagct	cgaggcgacg	caccaggccg	ccatcgacga	ggccgcggcg	29940

agctacgacc	tgcgcgcgct	cgcgcgacag	tggatcgccg	gatacgcgat	cgactggccg	30000
aggtctctatc	cgtctccgcc	gccctaccgc	ctggccctcc	ccacgtatcc	cttcgcgcga	30060
gaccgctact	ggatccccgt	cgccgcgcag	gcgcgcggcg	tcgccgcggc	ggcggcgaag	30120
ggcctccacc	ccttcctgga	cgccaacgta	tccaccctgg	aggagctggc	gttcgagaag	30180
accttcgccc	gcggcgacct	cgtgctgcga	gaccacgtga	tcgccggtcg	tccggtgctc	30240
cccgcggcgg	tgtacctgga	gatagcccg	gccgccggtc	accacgcagg	gccggggccg	30300
gtctccggcg	tccaagacgc	cacgtggggc	aggcccatcg	tggccacggg	cgactcggtc	30360
accttgcgcg	tcagcctcgc	ccgggagcgc	cagtctgtca	tttacctgtg	cacctcgcag	30420
cccgaagggc	agccggtggt	gcacgggtcc	gggcacctca	ccttcgcggc	gcccgcgcgc	30480
gcccccccg	cggcgtcgct	ccgcgacatc	atcgcccgtc	gcccgcggca	gatctcggcc	30540
gacgaccttt	atcgctcctt	cgaggcgctg	gggatccact	atggccccgc	gttcgcgcgc	30600
gttcaggcgc	tccactgcgg	ggagcgagag	gccgtcgccg	tcttgaggat	gcccgatgcc	30660
gcgggcagcg	gcgactacgc	cctgaacccc	tcgctgctgg	acggcgccct	gcaggcgatc	30720
gtccatatcg	ggctcgacaa	cgagctcgat	ccgtcgctcc	tgcgcctgcc	cttcgccttc	30780
ggccggctcg	tgatccggcg	gcccctcgac	gcgacgagct	gccacgcgca	cgcgatcctc	30840
acgcacgagt	cgcgcgcagg	cgaagaccgg	gtgctgaaat	accgcatcga	cgtctatgac	30900
ggcgacggcg	ctctccttgt	cgagatcgct	gactacagcg	tacgcgtcgt	ggcgcgcgac	30960
gcgctcggcc	ccgcgcggcg	ccgggcttcg	caaccgcgcg	acacgctctg	gtacgagccg	31020
cgctggggagg	cgacgcccg	cgctccgggg	cgcgcgctcc	cggcgtggga	tcggctgccc	31080
gagcggctcc	tggctcttcg	ccgagacgac	gagctcacgt	cgcgcttgtg	cgaggcgctg	31140
agccggctcc	ggcccacgcg	gcggatcgtc	ccgggcgcgg	cgctcggcgc	gctcgaccgg	31200
caaggctacc	ggatcgatcc	ggcggatccg	agccactacc	gccgcctctc	ggaggagctg	31260
gatcgcgacg	accggtggtc	gacgaggacc	gtaggcgtca	ttcacctctg	gcgctatccg	31320
gccggcgccg	agggcgctca	cgcagggtc	cactccctgc	tctacctcgt	ccagagcctc	31380
accgcccga	acgcgcgcca	gcgcgtccgg	tgcctcgctc	ccgtcggatc	cacggacggc	31440
gccgccgatc	cgcgcgacga	ggcgctggcc	ggcttcggcg	ccgccctgtc	ccctgtcaac	31500
cctcacctcg	agctcatcac	cctgcaagcc	gacgcgacgc	ggctcgacgc	gcagcagatg	31560
gcgggcgtcc	tgctccacga	gctggccgcg	tccgacaccg	cccatggcag	cgagatccgc	31620
tataccgacg	ctgctgcccg	gtggacacgc	gcgttacggc	ccctggagga	cgggccgacg	31680
cggacagcgg	acgcgccgcc	gctgcggacg	ggcggtgtgt	acgtgatcac	cggcgggagc	31740

ggctacctgg	gctcgacctt	cgcgcgccac	ctcgccgggc	ggtacggggc	gcggctcgtc	31800
ctctgcggtc	gatectcgaa	cgacgagcgc	aaggaagccc	tggcgcgga	gctccgcggc	31860
ctcggtggag	aggcggtcta	tgttcaagcg	gacgtcagcg	acgcaggcgc	cgcgagaggg	31920
gtggtgcagg	ccgcgcagca	gcgcttcggg	gcgctccacg	gcatcctcca	cgccgcgggg	31980
accgacgagg	cgccgccgct	cgcgcgcgcc	gacgccgcct	ccttcgccaa	ggtcctggac	32040
cccaagggtgc	gcgggacgct	gaacctggac	gccgcgagcc	gccagggtgt	cacctggac	32100
ttcttcgcgc	tcttctcgtc	gatcgccgcg	gtgatggggc	acctcggcgc	cggtcgctac	32160
gcgtacgcca	acgcgttcat	ggaccgcttc	gccgccgctc	gagagcggca	gcgcgcgcaa	32220
ggtcgacgac	acggcaagac	gctggcgatc	aactggcccc	tgtgggccgg	cgagggcatg	32280
agcctgcccc	aagggcagca	ggagctgtac	gccggcatcg	caggcatgcg	cgcgctcgat	32340
ccggcgctgg	gcctcgagct	cttcgcgcgg	gccctctcag	ccccggcgcc	gcagctgctc	32400
gtggtccacg	gggatcccga	gcggatgcgg	cggtcatcg	agcggaggaa	ccgcgcggcg	32460
gcggcggttt	catcgcatcc	cgccgagccc	gccgccagcg	ccgccccggg	tgacgagcgc	32520
ctcgcccagg	ccgtcgagga	ttatctcaag	ggccacttcg	ccgcggtctt	caagatggac	32580
gcggcgagca	tcgaccgcga	aaccagcttt	gacgactacg	gcatcgactc	gctcgtgac	32640
gtggagctcc	acgcgcgcct	cgacaaggac	atgacgccgc	tgccgcgcac	gacgttcttc	32700
gagctccgga	ccgtccgcgc	ggtcgccgac	cacctgctcg	cgtctcgccg	cgccgagctg	32760
cgccgggtcg	tgggcctcga	ccgggaggcc	acggcgcccc	ccgcgccgga	ggccggcgag	32820
cccgccccgc	gtggaggcgc	ggaggccccc	gcccacgcgg	tggccccggg	cccggcggcc	32880
agcgctcat	cgaacgagca	cgcgggcgcc	ggagcgggcc	gcgacgccgg	cagccgagcg	32940
cccgccccgc	ccggagcggc	cctcgcgga	gaaggcatcg	cgatcatcg	catgagcggc	33000
cggtacccca	tggcgcccga	cctggacgcg	ttctgggcca	acctcaaggc	cgggcgcgac	33060
tgcgtcgagg	agatccccgc	ggagcgatgg	gaccaccggc	ggtacttcga	ccccgagccc	33120
gggaaggagg	gcaagagcta	ttgcgcgtgg	ggtgggttca	tcgaggacgt	cgacaagttc	33180
gatccgctct	tcttcagat	ctcgcccaag	cagggtggcg	cgatggaccc	gcaggagcgg	33240
ctcttccttg	agaccgcgtg	ggccacgctc	gagcacggcg	ggtacggggc	cgtgcaggaa	33300
gacgcggccc	ggataggggt	gttcgcgggc	gtgatgtggg	acgattacgg	cctgctcggg	33360
ctcgagcagg	cggcgctcgg	gaaccacgtg	cccgccggct	ccgatcacgc	ctcgatcgcg	33420
aaccggatct	cgcttcgtgat	gaacctgaga	ggcccagacc	tcacggtctc	cacggcggtg	33480
tcctcgtcgc	tcctggcggt	gcacctggcg	gtggagagcc	tgaggcgagg	cgagtgcgcc	33540
atggccatcg	cgggaggcgt	caacctgtcc	atccacccga	gcaagtacac	ccgtctgtgc	33600

cagctccaga	tgctcgcgcc	ggacggggcgc	tgccgcagct	tcggcgcccg	cgaaagggg	33660
tacgtgcccc	gagagggcgt	ggcgccgtg	ctgtgaagc	ccctgagcag	ggccgaggcc	33720
gacggcgaca	ccatctacgc	cgtgatcaag	ggcagcgccg	tcaaccacgg	gggcaagacc	33780
cacggataca	cgtccccgag	ccccaaaggt	caggccgacg	tcatcgggcg	cgccctcgag	33840
cgcgcgcggc	tccacgcgcg	cacgatcagc	tacgtggagg	cccacggcac	gggcaccgcg	33900
ctgggagatc	ccatcgaggt	cgcggggctg	gaggagagct	tcaggcgcg	caccggcgac	33960
aggcagtact	gcgcgctggg	ctcggtgaaa	tccaacatcg	gccacctcga	gagcgccgca	34020
gggatcgcgg	ccctcacgaa	ggtcgcgctg	cagctgcacc	accggcagat	cgtgccgtct	34080
ctgcacgccg	aggtgctcaa	tccgaacatc	catttcgaga	gcacgccctt	ctacgtccag	34140
cgaacgctcg	acgcgtggcg	ccagcccagag	gtgcgcgagg	gcggggtgac	cgaggtccac	34200
ccgcgcgcg	cgggcatcag	ctccttcggc	gccggtggga	ccaacgtcca	catggtcgtc	34260
gaggagtatc	aggcttcgac	tcctgccctc	gagatcgcgg	cggccgagcc	tgagcttgtc	34320
gtgctctccg	cgcacaccga	agagcggttc	cgcgtcacg	ccgagcggct	gctgcgttc	34380
ttgcaaggct	cgcggcctgg	agggtcccc	tgcgccagcg	cgccgggccg	gcgcctgccg	34440
gaggccgcgc	agctccgcgc	cgagctgcgg	gacatcgtgg	cgcgacgcct	ggacgtcgcg	34500
ccgcgcgacg	tcgacgagga	cgccgagatc	tgcgagctcg	ggctcggcgc	gctcgacgtg	34560
cgcgcctga	ccgaagacat	cgagcgccgc	ttcggcctgc	gggtgagccc	cgaggacgtg	34620
accgagcgga	cgacggtcgc	aggcctcgca	gggcgcctgc	gacacctggc	agcgccggac	34680
gccgatcggg	acgacagcgc	ggctcgtccc	gccgtgcgct	tgagcgatct	cgcctatacc	34740
ctgcgcgcg	gtcgcgatcc	ccgccagcac	cgcctcgcgc	tgcacgtcgc	cgatctggac	34800
gagctcatcg	agcagctccg	gcgctactgc	gaggaaggcg	cggccgacgg	gtcgcgctgc	34860
ttcgccgggc	aggcatccag	gcgggcccga	agcagcggat	cgcgcaagga	ggccatggcg	34920
gacgaggccc	gggtgcgcgc	cgccatcgcg	gagcgagacc	tggccacgct	cggccggctc	34980
tgggtcgcgg	ggaccgacgt	ggactgggag	ccgctcgacg	cgcgccgggc	gcggcggcgc	35040
gtcccgtcgc	ccacgtaccc	cttcgcccgc	gagcgttact	ggttctccag	gagcggagac	35100
gccttcaccc	tcggccaggc	gggagagagg	cgcttgaccc	cgtcgtgca	ggcgaacacc	35160
tccacgttcc	acgcgcacac	gtactccagc	cggctccggg	gcgacgcgtt	ctacctcgcc	35220
gatcacctcg	tgcacggcca	gaagctcctc	cccgcggcgg	cgttcttgga	gatggcccgc	35280
gccgcggggg	agatggcgtc	cgggcgggcg	gtccgcgaca	tcctcgacgt	cgtctggacc	35340
gcgcccgtcg	tcgtgggcgc	cgagccgcgc	gagatcgaga	taacgctccg	gccggccgcc	35400

ggcgccatcg	acttcgccgt	gtcctccgcc	gccgagcgcg	cggtgatctc	ccacgcgcag	35460
gggcggatgc	gcctcgacga	gggggatccc	gccgaagagg	cggcgccgcc	cctcccgtc	35520
gatgacatcc	tctcacgttg	ctcgagggtc	accggcggag	acgcgtgcta	ccgccgcctc	35580
cagcagctcg	ggctgcacca	cggcggcagc	atgcgcgcgc	tccacgagct	gcgccgaggc	35640
gagggcgagg	ccatcgcgga	gattcgccct	cggagagctt	accacgtgga	cttctccacc	35700
tttgcctcc	atccgcctt	gtcgcagct	gccctgcaat	gcacgctcgg	gctgctggac	35760
gatgaggcgg	cccgagcccc	ctatcttct	ttcgccgtcg	gccgggtcac	gctgctccgc	35820
ccgctgccgg	cgcggctctt	cgcctatgcc	acgccgtcgt	ccgcgccgcc	gggcacgaac	35880
gccagggcct	ctcacgtcac	gctggccgat	cccgccggcc	gggtgctcct	cgagatgcgt	35940
gatttcaccg	tccgcctcgc	gacggcggac	gtcgcgcccc	ccccgcccc	gcggctctat	36000
ttccggcctg	gcttgcgccc	tcagcgcgtc	gaccgccccg	ccggcgcgcg	cgccccgcaa	36060
ggccccgtcc	tgctcctcga	caccgacgat	gtcctctgga	cggccgccag	ggcgcgcctc	36120
caggcgccga	tcggcctcgt	ccttccaggg	ccggagtcc	aggcctcgag	cgacgatcgg	36180
tatgtcatcg	atccgagccg	gccagagcac	catcgacgcc	tgctcgacgc	gttcgtggcg	36240
cggcacggcg	tgctgcgtc	ggtcttgat	ctccggtcgc	tgcatgacga	ccgggaggcc	36300
gccggcgaca	cccgccacct	cgacgcggtg	ttgcacctct	gccgcgcgct	gcaggagcgg	36360
cgaggcgagc	gatccgttcg	cgtgctctac	gtccacccga	ccgagggcgg	cgcggtcagc	36420
ccgcgccacg	cggcgctggc	tgcttccg	cggagcgtgc	gccgtgagga	tcccaacctc	36480
ctgtgcagga	ccgtggccgt	gccgctcgac	gtcggcccag	gccgcctcgc	cgacgcgttg	36540
ctcgccgagt	gcagcccga	cgccgatcgc	gcagatcccg	ccgccgaggt	gcattaccac	36600
gagggtcagc	ggctcgtgcg	ctgcttcgag	cccttccagc	ccgacgccag	ccggcccgtg	36660
ccgctgcggg	aggagggggg	ctatgtcatc	accggcgggtg	ccggcgggct	ggggctcatc	36720
ctctccgacc	acctggcccc	gcggtaccgc	gcgaagctcg	tgctctgcgg	tcgctctccg	36780
ctgtccgcgc	agcaagcgtc	gcgcgtccgc	gccctcgaag	cctcgggcgc	cgaggtcctg	36840
gttctgcgcg	ccgacgtgag	ccagcgagac	caggcgtccg	ccgccctcca	cgaggcccgg	36900
tctcggttcg	ggcgaatcga	cggcgtcgtg	cacgccgcag	gcgccttgcg	ggacggcctg	36960
ctgtccaaga	aggacccggc	cgacgtcgac	gccgtgatat	ccgccaaggt	gacaggcacg	37020
ctcctcctcg	acgagctcac	ccgggaggat	catctcgact	tcttctgct	gtgctcctcg	37080
gtcgccgcga	tcctcggcag	cgccggtcag	gcgactatg	cctacggcaa	cgcttcatg	37140
gatgccttcg	ccgccctccg	cgaggagcaa	cggcacagcg	gccggcggcg	cggggcgacc	37200
ctctcggtca	actggccgct	atggcaggaa	ggcacgatga	ggcccgacgc	cgagtcgata	37260

gcgtggatga	cgcgggcgac	cgggatggtg	cccatggaca	ccgagcaggg	cctcgccgcc	37320
ctggaggact	gcctgcgggc	cggagggccg	cagatcgccg	tgctcgccgg	cgatcccggc	37380
aagatccagg	ctctgttcag	cggagagcgc	gccgcgccgg	cggccggcgg	ccccgccgcg	37440
ctcccgcccg	tcgagcccgg	cgcgtagcgc	ccccgcgcgg	tcggctttct	caagcgcgctg	37500
ttctccgagc	agtggcagct	gccgatccac	cgcacgcacg	ccgagcagtc	gctcgaccag	37560
tacgggctcg	actcgatcat	ggcgatgagc	ctcaccgcc	ggctggagac	gttcttcggc	37620
gagctcccga	agacgtgct	cttcgagcac	cagaccatcg	ccgcgctggc	tggctacctc	37680
gctcgccacc	acgccgaggc	gctccggcgc	gtcgtcggcg	acagcgcccc	ggcggtcgct	37740
ccgcgccccc	ggcccgatgc	ggccccctcc	ggcgcggcgc	ccgcgcctcg	cgagctctcc	37800
gcctcgcgcc	tcctgcgc	gcagcccggg	ggcctcgaca	tcgccatcgt	cgggctcagc	37860
gggcgctacc	ccatggcgcc	tgacctcgac	gcgttctggg	agaacctcgc	ggccggccgc	37920
gactgcgtcg	tggagatccc	cgccgaccgc	tgggaccacg	ggcgctactt	cgatccgaac	37980
ccgggcgcgg	cgggcaagag	ctacagcaaa	tggggcggt	tcctcgacga	cgtcgatcgc	38040
ttcgatcccc	tcttcttcaa	catcgcgct	cgggagggcg	aggccatgga	cccacaggag	38100
cgcgtgttcc	tggaggctgc	gtggcacgcg	ctggaagacg	cgggctacgc	gcgatcgccg	38160
ctggcgaaac	gcgcgacagg	cgtgttcgtg	ggcgatcatgt	acggtcacta	tcagctcttc	38220
ggcgccgagg	cgctggcgct	ggatcgggcc	gtgtccgcgg	gctcgtcctt	cgcgctccatc	38280
gccaatcggg	tgtcctattt	cttcgacttc	cgcggcccca	gcgtcgcgct	ggacaccatg	38340
tgctcctcct	cgctgaccgc	gatccacctg	gcctgcgcgg	cccttcagcg	aggcgagatc	38400
gagatggcgc	tcgccggcgg	cgtgaacctg	tcctgcacc	ctcagaagta	catcctgctc	38460
agccgcggca	agttcatggc	caccgacggc	cggtgccgca	gcttcggcga	gggcggcgac	38520
ggctatgtcc	ccggcgaggg	cgcggggggc	gtcggtctca	agcgccctgga	ccgcgcgac	38580
gccgacgggg	atcgcatcca	tggagtcgtc	aaggcgagcg	ccctcaacca	cggcggaag	38640
accagcggt	acaccgtccc	gaaccccagc	gctcaggccg	acgtcgtcgc	cgccgcgctg	38700
gcgcagtcgc	gcgtcgatcc	gcgcacgac	acctatgtcg	aggcgcacgg	gaccggcacc	38760
tcgctggggc	atcccatcga	gatcgccgga	ctcacaaggg	ccttcgaggc	ttccccgaag	38820
gagcgtccca	cctgcgccat	cgggtcggtc	aagtcgaacg	tggggcacct	ggagtcggcc	38880
gcgggcgctg	ctggcctcac	caaggtgctg	ctgcagatgg	cgcagtgagca	gctggctcct	38940
tcgatccacg	cggatcccc	caacccccaac	atcaactttg	ccgagtcgcc	gttcgctgta	39000
cagcgggagc	tcggtccctg	gcgggctcct	gtcgatgagc	gcggccagcg	gctccccctg	39060

cgggcggggc	tgagctcctt	cggcgcgggc	ggcgccaacg	cgcacctcgt	gctggaggcc	39120
tacgtgccgg	gcgacgaggc	agggggccgcg	gccgccgtga	cggccgggag	cgagcgcccg	39180
caggtgctcg	tgetctcggc	ccgcacgccc	gagcgcttgc	gcgtctccgc	cgcgcggtcg	39240
ctcgatcacc	tccggacgcg	cgcgcggggc	acggcgctgg	ccgatgtcgc	gtacagcctg	39300
caagtcgggc	gcgaggccat	ggacgcgcgg	ctggccctcg	tggtcgacag	cgcgagagcag	39360
gccatcgcg	tgctcgagca	ccacctcggc	gaccgcgcgc	ccgagggcgg	ggcgccgcgc	39420
gcccaggaga	cgcaggggct	ggagcacatc	cacgagggga	gcgccagggc	gggccacgtc	39480
cggcagctcg	ttcacggccg	ggcggcgcga	tctttcctgc	aagccctcct	cgatgaaggc	39540
gatctggaca	ggatcgccgc	gctctgggtg	agcggtgctg	acgtcgactg	ggcccgcctc	39600
cacgagggag	cgaggccgcg	ccgcgtcgct	ctgcccgcct	atcccttcgc	gcgcgagcgc	39660
tgctggttcg	ccgtgcccgc	agaggaccgg	cgcggcgggc	tcccgcctc	cgccgaggtc	39720
gcggcgacgg	cgcggtgca	cccgtcctg	agccgcaaca	cgtcgacgtt	cagagagcag	39780
cggttcgcca	cgaccttcac	cggcgaggag	atcctcctct	cggaccaccg	gatccgaggc	39840
cgcgccctgc	tgccgggcac	ggcttacctg	gagatggcgc	gtgtggccgg	cgagctctcc	39900
gccgagggcc	gcgtcggtcg	tttcaccgag	gtcacctggc	tgagccgat	ccaggtcgat	39960
cgcgcccccg	tcgaggccac	cctcgacctc	cggccgaccg	agacgggctg	ccagtttcgc	40020
gtctgcacgc	aggacggggc	cctcgtcac	gtgcgcggcc	agctccacgt	cgagccccag	40080
cccccgagg	gcgagccgac	ggtggacctg	gcggccatca	aggcgcgctg	ccccgagcct	40140
ctcctgcggc	aggactgcta	tcgggcccctg	cgcgagcaag	ggttcgagta	tggccctgcg	40200
ttccaggcta	tcgaggcctt	ctacgacaac	gacgaggagg	ccctggccct	gctcagcgtc	40260
gccgagcctg	atttccaggg	cttcgccggt	gggctgcacc	ccatgatcct	ggacgcggcc	40320
ctccacgcgc	ggatgctgca	caggcgagag	ggcgcgaccg	gcgacgtcac	gccggtgccc	40380
ttctacctgg	aagagctgg	cgctccttcgc	ccgctggagc	gccgctgcta	cgcgatatatg	40440
caggtgcggc	gcctcgccgc	aggagaagag	cggagcgagg	tcgccgtcat	ggacgtgacc	40500
ctcgtggacg	aggcgggctc	gccgctcgtg	cgcgtcaaag	ggttcacggg	gcggaagctc	40560
gtcgacgccc	acgaggagcc	ggagcaaaac	gccgtcctct	tcttcgggga	cgccctggcag	40620
cccgccccgc	tcccctcgcg	tcgccccgc	ggcgcgccgc	cggccagcgt	cctcttgatc	40680
gccgaggaca	ccgcccgggc	gcgggcgttc	gagcgccctg	tccgcgcgcg	ggcggtcac	40740
ctgacgtggg	tttgccctgt	cgggtcgccc	cgggcgcagg	ccgagccgag	cgcgcgccgc	40800
agcgcggggt	ccggcgatcg	cggggctcca	gggctcgcca	tcgagccgcg	ccccgtcgac	40860
gactaccgcg	ggctgctcgc	gacgttgaag	gagcagggcc	gcctgcccgg	cgggatcatc	40920

cgctgtggg acgcgccgag cctcgacacg gaagcgtctt cgcccgcgga gggaccggag 40980
 agcgtcgagg agctgagaga gctcttccac ctctgtctgc cgctcgcgag cgcggtccct 41040
 catccgaagg ctgcctgat cctcgcttc caccggcgacc cggcgcccct cgccgtcgag 41100
 gccacgtccg gcttctgcag gtccctcggg ctgctgctgc cgggcctgcg gtcgagcacg 41160
 atccactgga cccaccgca gcccgagcgc caccgagagg acctctgggc cgagctcgcc 41220
 gatcctgcga cgagggggat cggcgggagg aacggggcgg agatccgcta tcgcggtccg 41280
 gaccggctcg cccgcaccgc ggcgcccgc gcgctcgcg ccgacgcgc gccggccccg 41340
 ctccgccacg gaggggtcta cctcatcgcg ggaggcgccg gcgggctcgg gtacctggtc 41400
 gcccagcacc tcgcccacg ctaccgcgc agcctcgtgc tcacgggccc ctgcgccctc 41460
 gacgccggca aggagcggca gctcgccggg ctccgggacg ccggcggaaca ggggctctat 41520
 tgccaggcgg acgtcgcgga cgaggcgcc atggcgccg cggtgcgcct ggccaaggag 41580
 cgattcggcg ccttgacagg ggtgatccac gcggccggcg tgctcgacga gcgccccgtc 41640
 gtcgagaaga cgtgggggga gttccacgag aacctgcggc ccaaggtcgc cggcagcgcg 41700
 gtccctgacc ggatcacgc gcccgagccg ctcgacttct tcgcggtgtt ctctccacg 41760
 tcggccgtgc tcggagactt cggctcctgc gattacggaa gcggcaaccg gttccagatg 41820
 gcctatggcg cccaccgca gcggctcgg cagcagggcc tccggcgcg gatcacgcgc 41880
 gtcatgaact ggccgctgtg gcgcgagggc ggcattggcg gtcgcgccga gtgggagcaa 41940
 acctacctga agacgagcg cctggattac ctcgacacg ccgccggtct ggaggcggtc 42000
 gagcgcatcc tcggggccc tcagtcgcc gtcacggtgt tctacggcaa gccgtcgcgt 42060
 gtggcgaggg cctcggcct cgacgcgcgc ccgcccccg cgggtcgcgg cgcggcggcc 42120
 gcgcgcctcc cgccggcgga ggcgcggcc gccgccccg aggcggcggt ccgcgagagc 42180
 gcggcgcgcg cgccgctgc cgaggtgat ctcgacgcga tcaccgaggt cctcaacgtc 42240
 cggcgcgcg cgatcgccc ggacgtcaac atcgccgagt acggcttcga ctcggtgtcg 42300
 cttgcgcagc tcgccgatca gctcggcgcg cgctcgggt tgaagctggc gtcgctcgtg 42360
 ttcttcgagc acacgacggt ggaagagatc gaggccttcc tggagcgga gcacggcgcc 42420
 gagtccgcg cgcggatgaa cggggcgcg gagtccacg gccgcatgaa cgaggcgcg 42480
 gagtccatg accgcatgaa cggggcgcg gagtccacg accgcatgaa cgaggcgcg 42540
 gagtccacg accgcatgaa cggggctcga aaggaggctc cgcgcgcgaa ggagccggcg 42600
 ccggccgacc cggtccgc gccggcgct cgcgagaac gtcgcggt cgccggcgcg 42660
 cctcgcgca gcgcgccgc caggccgcg gaaggcgct cgcgcgcgca catcgccatc 42720

atcggcggtca	gcgggccgcta	cccgagggcc	gaggacctgc	gcgcgctctg	ggcgcggttc	42780
caggccggcg	agagctgcat	cgaggagatc	cccgcggagc	gctgggacaa	ggatcgctac	42840
ttcgacccgc	aaaagggccg	gagcgggaag	agcgagagca	agtggggcgg	cttcctccgc	42900
gacgtcgatc	agttcgatcc	gctgctcttc	aacatccctc	ccgcgcgggc	tcggatcatg	42960
gatcccatgc	agcggctctt	cctggagagc	gtctatgaga	cgctcgagga	cgccggctac	43020
acccgcgcca	tgctgtcgaa	ggacggcggc	aaggtcgggg	tgtacgtggg	cgccatctac	43080
catcactacg	ccatgctcgc	cgcgagcag	tcgacccgca	gcctcctgct	ctcggccttc	43140
ggcgcccaca	tcgccaacca	cgtgtcgcac	ttcttcgatc	tccacggggc	ctgcatggcg	43200
gtggacacga	cctgcgcgtc	gtcgtcacc	gccatccacc	tcgctgcga	gggcctgctc	43260
ctcgggcgca	cggatctcgc	catcgccggc	ggcgtcaacc	tctccctcat	cccggagaag	43320
tacctggggc	tgagccagct	ccagttcatg	agcggcgggg	cgctcagccg	ccccttcggc	43380
gacagcgacg	gcatgatccc	cggcgagggc	gtcggcgccg	tgctgtcaa	gccgctggat	43440
cgcgcggtcc	gcgatcgca	ccacatccac	gcgatcatcc	ggtccagcgc	cgtcagccac	43500
ggcggcgcca	gcacgggctt	cacggcgccg	aacctcaagg	cccagtcgga	catgttcgtg	43560
gaggcgatcg	agagggcggg	catcgaccca	cgcacgatca	gctacgtgga	ggcgcccgcc	43620
aacggcgctc	cgctcggcga	ccccatcgag	gtcaacgcgc	tgaccagggc	gttcggcggc	43680
ttcaccgcgg	acacgggctt	ctgcgcgctc	ggcaccgtca	agtcgaacat	cggatcatctg	43740
gaaggggcct	ccggcgcttc	ccagctcgcc	aagggtgctg	tccagctccg	gcacggcgcg	43800
ctggcgccga	ccatcaacgc	cgagccgagg	aatccgaacc	tgacacctga	cgacaccccg	43860
ttctacctcc	aggagcgctt	cgacgactgg	cgtcgaccga	tcctctccgg	ccgcgaggtc	43920
ccgcgcgcgg	ccatgatcaa	ctccttcggg	gccggcgggg	gatatgccac	cctcgtggtg	43980
gaggagcacc	gcccgcgcgc	gcgcgacgcc	gcgcggggcc	gctcgccctc	cgggccgccc	44040
gagctgttcg	tgctctccgc	gaggagccgc	aagagcctgc	gcgagctggt	cgtcaggatg	44100
cgcggcttcc	tcgccgaggc	gaccgacctg	cgcctcgacg	acgtggccta	cacgtccag	44160
gtggggcgcg	aggccctgga	gctgcggctc	gccgtggtgg	cggacaccgt	ggaggcgctc	44220
ctctcggcgc	tggacggcta	cctccgcgat	cccagaggtcc	ccgcgccggg	cgtcttcacc	44280
ggccaggcg	atggcgacgc	gtccagcggc	gccgcgcgc	ctcccgccca	ggcgtccgc	44340
acgcccagag	aggcggcgcg	ccggtgggtc	gcgggcgcgc	cgatcgactg	ggaggccctc	44400
tacccccctc	gcgacgcgcg	gcgcatcccg	ctgccgacct	acccgttcga	ccgcggcgcg	44460
tgctggctgg	atccggcgcc	ctccgacgag	gcctcgccga	gccccgctgc	gccccgcgcc	44520
gaggcgcccc	ggccccgcgc	ggccccgcgc	gcgcccccca	gcgcggaggc	ccgcgcgctg	44580

gagggctacc	tgtgcgcgcg	gctggagtcc	acgctgggcc	tcgatcaggg	cgagatctct	44640
gcccgcgcgt	cgctgcggcg	cctcggaactg	gactcgatcc	tggccgcca	gctcaaggtc	44700
acgctggagg	gagagctcgc	catgaccatc	cccatggagg	tcctgagcgg	cgacaagagc	44760
gtggcggagc	tcggcgatta	tctctctcga	cggggagccc	gcgcgccgga	gagccggggc	44820
aaggcgcgca	gcggcgcggc	cggggccgac	ctgtccacct	ccctcaaggc	cctctcgggc	44880
gcggtgctgc	gggaacagtt	cctggcgttc	gggcacgacc	tggccggcgt	accgggagag	44940
gagctgactc	ggctctacgc	catcctgcaa	gaggaatgat	gacgatggaa	agcgcgatga	45000
ccatccagga	gtttgccaac	ttgtctgcgg	aggagaaggt	gcaggtcctc	ctgcgcttgc	45060
gggaccggcg	cgcttcgtgg	caggcgggcc	ccgagggccc	cgcggccagc	gctcagccct	45120
cgctccggcc	cgtgatcacg	gcccgcgcgg	gcgatcgctt	cctccccttc	ccgctgacgc	45180
cgatccagga	gtccttcctg	gtggccaagc	aggtcgacag	ggcgggggat	cacgtcggat	45240
gccacatcta	cctggagatc	gacgaggcgc	gcctcgacgt	ggcgcggtc	gagcgcgctt	45300
tccaccggct	cgctgtccac	cacgacatgc	tccggaccgt	cgctcgcgcc	gacggcacc	45360
agcaggtcca	ggagcccggg	cagccgcgca	gctttccggt	ggacgacctc	cgcgggcgcc	45420
cgggcgcggc	gctggacgcg	cacctggaga	gcgtgcgcgc	gagcatgtcc	caccgggtct	45480
acgcgccagg	ggcctggccg	ctccacgaga	tccggatcac	ccgctgcagc	gacgagcgca	45540
gcgtcatcca	cgtcagcatc	gacgagtgga	tcctggacgc	cgccggcctc	aacctcctgc	45600
tcacccagtg	gtaccggctc	tacagcgacc	ctgacgcgac	cctgcccgtc	tgcgacctca	45660
gcttccgcga	ttacgtcctg	gcctcgaggg	aattcgagcg	ctcgccggcc	taccaggggg	45720
atctcgcta	ctggtgcgag	aagctggccc	agatgcccgg	gggcccggcg	ctgcctcgcg	45780
ccgagcagcc	cgggaggccc	gcgggcccgc	cctgctaccc	ccgtcgccgc	gtccacgggc	45840
gcctggccga	ggcgccgtgg	cgcgcgctca	aggacaaagc	gcgggagctg	gacgtctccc	45900
cgacggccct	gctcctcacc	ctcttcgcgc	aggccctcgc	ctcccacagc	gcgcccgggc	45960
cgttctccct	cacgctcacg	tacttcaacc	gcccgcggat	ccaccgcac	atcgagcgcc	46020
tgctcgcccc	gctcatctcc	accacccgt	tcctcgtcga	gggagccacc	gatctcacgc	46080
tgcaggagga	ggtccagcgc	agccagcgac	agctctggcg	cgacatggac	cacgaccgcg	46140
ccgacagcat	cctcgcgctc	cgcgccctca	gggcgaggcg	cgcggcgccc	cccgcgagca	46200
cggctcgtctt	cacaagcgtc	ctccacaacg	tgagcagaga	agcccggcag	caggggaggga	46260
gcttctcga	tcaaataacc	tattcggtca	cccagacccc	gcaggtctac	ctggaccacc	46320
aggtctacga	gaaggacggc	ggccttcatt	tcacgtggga	tgctcgtggac	gccgtcttcg	46380

cgccccgggtg	cgtcgacgcc	ctcttcgaca	cgtattcgcg	gctcctcggg	gcgctcgcg	46440
cagagccctc	gcgctggacg	tcgccggggt	ggcgcgagga	gctcctgggc	ccgcgcccc	46500
cgcgcgcg	cgggcccgac	cggacctccg	cggcgcggc	cgcgaggggt	ctcgagatca	46560
tcgctcggcc	ggaggagcgt	caccagagat	tccccctgtc	cgatctgcag	caggcctact	46620
tcgtcggccg	caccgggttc	gccgccaacg	ggggcgtag	ctgccagatg	taccaggaga	46680
tcgagctccg	cgatccggac	atcgtcgcc	tcgatcgggc	gtggcagcgc	gtcatcgacg	46740
cccacgagat	gctgcgcgcg	gtcatccacg	ccgacggcac	ccagagcatc	cgcgccgagg	46800
tcccgcgcta	cgtcatcgag	gtctcggacc	tccgcgcggc	gtcgcccag	gcccgcgcg	46860
agggcctcgc	tcggacgcg	gagaccatgg	tcgccagggt	attccccctg	gatcagtggc	46920
ccttcttcga	gctgcggctc	tcgctcaccg	agccgtcgag	ggccgtcctc	cacctgagca	46980
tggatctgct	cctcgccgac	gcgacgagca	tccacctcgt	cctgaagcag	ctcttcgccc	47040
tgtacgagcg	gcccgcagg	ccgtgcgcgc	cgccgcggct	ctccttcgc	gactaccagc	47100
tcgcgctcaa	ggaccacgag	cgcgccgcg	gccacgccgt	cgcgctcgcg	tactggcgcc	47160
ggaggctcgc	ggacctcccc	ggcgggcccc	agctcggcat	gcgcctgccc	gacggccggg	47220
gcggccgcct	gcggcgccg	cagttcgacg	gcgtcctgga	gcggtggtcg	cgctccagg	47280
agggcgccgc	ggccctcggg	gtctcggccg	aggccgtgct	gctgggcgtc	tatttcgagg	47340
tcctggacgg	ccgtccagc	cgcgccccct	tcaccgtggt	cgtggcgcg	tgggaccggc	47400
cgccggtgca	cccggagatc	ggcgccgtgg	tcggcgattt	caccgcggtg	agctggatcg	47460
tctcgccgcc	gggcgagacc	ttcgccgagc	gcgtccggca	cctggagcgc	acgtctctccg	47520
aggatcgcg	gcaccgcctg	gtcagcgggt	cccgggtgct	gcagcagatg	gccatcaagt	47580
cccgaacag	gcagttcctc	acgttcccgg	tggtcttcac	cggcctcggg	cccagcctca	47640
agggcgacct	ccccgacacc	gtctctctcg	gataccgcat	caccagacc	cccaggtct	47700
acctggacaa	catcagcatg	gaggccgacg	acgccctgcg	gctccactgg	gactcggtcg	47760
agggcgctct	ccccgagggg	ctcatcgagt	cgatgttcgg	cgcttactgc	cgcatcctcg	47820
accggctggc	ccgcgatcac	gccgcctggc	acgagggccg	gctcgacgcg	ccgcgcgccc	47880
ccgagggccc	cgcgccccctg	cccgcgcgg	agggccgcga	ccgcgcgccc	ggcgccgccc	47940
ggcaccggac	gacctgcac	cggctgatcg	aggagcgcgc	gagcctgtgc	cccgaccatg	48000
tcgccctgat	cgccgagcgc	gagcagctca	cgtaccggga	gctcaaccgc	cgggccaacc	48060
agggcgcgcg	ccgcctgagg	cggctcggcg	tcgggcccga	cgtcctcgtc	ggcgtgctcg	48120
ccgaccgatc	catcgagatg	gtcgtcgccc	tcctggccat	cctcaaggcg	ggcgggcggt	48180
acgtgccgat	cgacccacg	tacccccgcg	agcggatcga	cttcacgcgc	gaggacgcgc	48240

gcctctcggt	cctcctcctc	gcggaggagc	gccgccggct	cccgtcggtc	cgcggcaccc	48300
agctgtgcct	ctccaccgag	cggcacctcc	tggacggcga	ggcggagcac	gacctcggcc	48360
ccaccgccgg	gccggatcac	ctcgcttacg	tcattctacac	ctccgggtcc	accggcaagc	48420
ccaaggggtg	catgatccct	catgacgcga	tctgcaaccg	gctgctctgg	atgcaggacg	48480
agtaccggct	ggcgccggac	gatcgcgtec	tgcagaagac	cccttatacg	ttcgacgtct	48540
ccgtgtggga	gttcttcttg	cccctcatcg	ccggcgcgac	cctggtgatg	gccaggccgg	48600
aggggcacaa	ggacgtcgcc	tacctggtcc	gggtcatgga	ggagcagcgg	atcaccacgt	48660
gccacttcgt	gccctccatg	ctgaacttct	tcctcaagga	gccggcgctc	ccaacgcacc	48720
tccgccaggt	gttcacgagc	ggcgaggccc	tgtcctacga	cgatcatggac	acgttctctgc	48780
gccgctcccc	ggccaggctc	cacaacctct	acggccccgac	ggaggccgcg	gtggacgtca	48840
cctactggcc	gtgcgagcgc	cgccccgata	gcaagggtgcc	gatcgggccgc	gcgatctcga	48900
acgtcgagat	ccacatcctc	gacagcgcgc	tcaggccccgt	gcccgcgggc	gccgagggcg	48960
atctctacat	cggcggcgtc	tgcctcgccc	gcggctacct	caaccggccc	gagctctcgc	49020
gcgagcgggt	cgtcccagac	cccttcgacc	ccggcgcccc	cctctacaac	accggggatc	49080
gcgcgcgcac	cctggacgac	gggaacatcg	agtacctggg	ccggctcgac	gcccagggtca	49140
agctgcgcgg	gttccgcata	gagctcgggg	agatcgaggc	ggcgtgagc	gcccacgagg	49200
ccgtgcagga	cgccgtggtc	gccgtgcagg	acgcgcacac	ggaggacccc	aagctcgtcg	49260
cctacctggt	cacgggcggc	cggcccttcc	cggcgccccg	cgccctcaag	gcctatctca	49320
aggagcgctt	gcccgaactac	atggttccga	accgcttcgc	gcccatacgc	cagatcccgg	49380
tgacggccca	cggcaagctc	gatcgcaagg	ccctgccctg	gccggtgccg	gctccctcgg	49440
cccagccgga	gccccgcgcc	gccggcgcgg	ccgcggcgcc	cccgggcgcc	gcccaggccc	49500
ggcggccagc	ggggtctctc	agggaggccg	ccgaggaaga	gctccagcgc	atcctcggca	49560
aggcgctgca	cctcaccgcg	ctcgatcccg	gcgctgacct	cttcgagctg	ggcgccacct	49620
cgctcaccat	cgtgcaggcg	tcacagcaca	tcgaggagcg	cttcggcgtc	gggctgccgg	49680
tcgaggtcgt	cctggccgag	ccgacctcgc	acgccatcgc	gcggcacgtc	gccgagcgga	49740
cggcggctgg	cgcgcccag	ccccggccc	ccgggccccgc	gctggacgcg	cctcccgcgg	49800
cgcccagacc	cccggccgcc	gccgcccccg	gcccgatcga	tttcttctcc	agggaagatc	49860
gggagcgctt	caagcagcag	cagctccacc	tgcggcacgg	cgtcgagggc	ctcccgaacc	49920
tggatctggc	cgacgtccc	gcggccccgc	gcctctaccg	cgaccgcggg	agccgcgcgg	49980
actaccggcc	cgagcccgtc	tcgttcgacg	acctctcgcg	cctcctcgcc	gtcctccggc	50040

ggtacccgag	cggccagcag	accagctct	gctatccctc	ggccggcggc	acctacgccg	50100
tgcagaccta	tcttcacgtg	aaggagggcg	cggtcgagcg	cctcccgcc	gggatctact	50160
actaccaccc	g gatcgcaac	cagctggtgc	tcatcaacga	tcggcccgc	atccgccggg	50220
tgcaccactt	ctattacaac	cgcgagcact	tcgaccgcgc	cgggttcggg	ctgttcttca	50280
tcgcccagac	cgacgccatc	cagcccatct	acggcgatca	gagcctcacc	ttcgccgcga	50340
tcgaggcggg	ggcgatgac	caggcgctca	tgagccatca	ggcggaggcg	gacctgggcc	50400
tgtgcgccat	gggagggctc	gaactcgacg	ccatccgcgc	cgacttcaag	ctcgggagcg	50460
ggcaccggta	catcgtctgc	atgctggggg	gccgcgtcga	tcgcgaaggc	ggcgggcggc	50520
agggccgcgc	gaggctcctc	gagagcgcg	gggcggacgg	ctcgtacggg	gcggccgcgg	50580
cggaggccgc	cgccccgcgc	cgcgagcgcg	aggctccgc	cggcgcgcg	gagatcgcg	50640
tcatcggcct	cgccggccgc	taccccggg	cggacacgcc	acgccagctg	tggcgggcgc	50700
tccggagcg	ccagagcgcc	gtgaccggc	cgcccgccg	gcgcttcggc	gcgagcgccc	50760
cgcagggcga	cgagccccga	ggcggcgagg	cctccccggg	gtggggcggc	tacctggagc	50820
ggctcgaccg	cttcgacagc	ctcttcttcg	gcattctgcc	cgccgaggcg	aagctcatgg	50880
atccccagga	gcgcctgttc	atcgaggtgg	cctgggagtg	cctggaggac	gccgggtaca	50940
cccccgagga	gctccgtcgc	gccgcccccc	gggtgggcgt	cttcgtcggc	gccatgtgga	51000
gcgactacca	gagcgtgggg	ctggaggcgt	ggcagcggga	ccggcgcgcg	aaggccgtgg	51060
cgttccactc	ctccatcgcc	aaccggatct	cgtatctctt	cgatctccac	gggccgagcg	51120
tggccatcga	cacctcctgc	tcctcggggc	tgacagcgct	gcacctggcg	agccggagcc	51180
tccggctcgg	cgagtgcgac	gtggcccttg	tcggcggggt	caacctcctt	ggtcacccgt	51240
tccaccccga	cctgctcgag	ggcctcaacc	tcacgtcccg	cgacgacaag	acgcgcgcct	51300
tcggcgccgg	gggcagcggc	tgggtgcccg	gcgaggcggt	cggcgccgtg	ctgctgcggc	51360
gcctgcccga	ggccgaggag	cgaggcgagc	acatccgctg	cgtcctcaag	ggcacggcgc	51420
tcgcccacgc	cggcaaggcg	ccgcggtacg	gcattgccgag	cacgcgcgcc	caggcgggct	51480
cgatccgtga	cgccctcgcg	gacggcgggg	tcgcccgcgc	ggagatcgat	tacgtcgagt	51540
gcgcgcgccac	cggctccggc	atcgcgagcg	cctccgaggt	cgacgcgctc	aagcaggcgt	51600
tcgagggggcg	gagccctgac	ggcccgccgt	gcctcctcgg	gtcgggtcaag	ccgaacatcg	51660
gccacctcga	gtccgcctcg	gccttgctcc	agctgaccaa	ggtcatcctc	cagctggagc	51720
acggcgagat	cgccccgacg	ctgcacacgg	agccgcgcaa	cccgtgatc	cagctcgacg	51780
gcacgccctt	ccgatcaac	cgcgcgctgt	ccccctggcc	ccgggccgcc	ggggcgagcg	51840
cgcccccgcg	gcgggcgctc	atcaatgcgt	tcggcgccac	cggatcgtcc	gccacgccg	51900

tcgtggaaga	gtaccggcct	cgccgcggg	cctcgacccc	cgcggcggcc	gtccccggcc	51960
tgttcgtctt	cgtcctgtcc	gcggacaccg	ccgagcagct	cgaggcctgc	gcccgcgcgc	52020
tggcggagca	cctgcgcgag	cgctcgaccg	cgcgtcgcgc	cgacgtcgcg	ccgccggccg	52080
cgcccgacga	cgtcgcgtac	accctccagg	tgggccgtcg	cgcgatggac	gagcgcctcg	52140
ccatcctcgc	cggcgacctg	gacgagctcg	aggcccgcc	gcgaggcttc	ctcggcgggc	52200
gtggcgagga	cgacggcgag	cacctcttcc	ggggtcgcgc	ctcgtcgccg	cgcgatcgag	52260
cgccccgtgc	cccggaggcg	ccgctccccg	cgctggcgcg	ggcctgggtg	aacggagcat	52320
ccatcgctcg	gcacgacctg	tacaccgacg	gatcgcgggc	ccgggtgcct	ctccccacct	52380
atcccttcgc	ccgcccgctc	cactggctcg	gtcggccccg	cggagacgcc	gcggcgcccg	52440
ccgtcgcgcg	cggcgagacc	gccgaggagg	cgccctcgcg	cggcgagacc	gccgaggagg	52500
cgccctcgcg	cggcgagacc	gccgaggagg	cgccctcgcg	cgagaccgcc	gaggaggcgc	52560
ccgccgccct	ggcgccggcg	accgcggatc	ccgcgctcg	caaggccacc	ctcggcctgc	52620
tgtcctcctg	cttcgccgag	gtcgccgaga	tcccgcgccg	cagcctcgat	cccgaggctc	52680
ccctggaccg	ctatggcctc	aactcgatgc	tgatcgccca	gctctccgcg	cgactcgagg	52740
cgctcctcgc	cgagctgccc	aagaccctcc	tcttcgagca	ccacaccctg	gcagccctca	52800
ccgactggct	ggtcgcccac	cgcgggcgacg	cgctcctccg	ccgcctcgac	ctcccgcggc	52860
gggcgcggcg	gcccgcggcg	tccccggcg	cgctccccgc	ggcgcccgca	gcccgcgcgc	52920
ggccggcgag	agagcgctcg	gccgcggcct	ctccggccct	cgcgccggcc	gcgcctctcg	52980
agagcgtcga	catcgccatc	gtcggcctga	gcggccgcta	tcccggggcc	gacaccatcg	53040
acgccttctg	gagcaacctg	cgacaggggc	gtgacagcgt	caccgaggtg	ccggccgacg	53100
gctgggacgc	cgccgcgacg	ttcgaccccc	agggaggccc	cggcaagacc	cgccagcgct	53160
ggggtggtct	cctcgatcgc	gtcgatcgct	tcgacgcgct	cctcttcaac	atctcaccgc	53220
gcgaggcggc	gggcatggat	cccaggaga	ggctgttcct	ggagatcgcc	tgggtgcgct	53280
tcgaggacgc	ggtctatacc	cgcgagcggc	tcgccgaaga	acaggcgcg	gcccgggtgg	53340
gtgccggcgt	gttcgtcggc	agcatgtacc	agcagtactc	catgctcgcc	cggacgcccc	53400
acgccggggc	ctcgtcgtcc	ttctggtcga	tcgccaaaccg	ggtctcctac	ttcttcgacg	53460
tgcgcggggc	gagcctcgcc	gtggacaccg	cgtgcgcctc	gtccctcacc	gcgctccacc	53520
tggcctgcga	gagcctcgcg	cggggggag	gctgcctcgc	gctggctggc	ggcgctcaacc	53580
tccacctcca	cccgcaaacg	tacgtcgccc	tcgatcgcc	gggcctgctc	gggagcgcg	53640
ccgccagcaa	gagcctcggc	gacggggacg	gtacgtgcc	cggcgaggcg	gtcggcgccg	53700

tcgctcctcaa	gccgctcgat	cgcgccgctcg	cggacaacga	ccgcatctat	ggcgatcatca	53760
aggggagctt	cgccaaccac	gccggcaaga	ccgccgggta	cggtgttccc	agccccgcgcg	53820
cccaggccga	cctgatcgcg	gcggccctgc	gccggacggg	catcgatccc	gagaccatcg	53880
gttatatcga	ggtcgccgcc	aacggctcct	ccctgggcca	cgcgatcgag	ctcgcgggcc	53940
tcacgcaggc	gttccgcgg	ttcaccgccc	ggaagcactt	ctgcgccgtg	ggctcggtca	54000
agtccaacat	cggccatccg	gaggccgcgt	cgggtatcgc	tcagctcacc	aagggtgctcg	54060
gccagctcca	tcaccggacg	ctggtgccca	cgctccacgc	ggagccgcac	aacccgaaca	54120
tcgacctgag	ggacagcccc	ttctatgtcc	agcgagagct	cggcccgtgg	acggcgccga	54180
ccctcgccgg	cgaggggggg	accgcggagc	tcccgcgccg	cgccgcgatc	agctcgttcg	54240
gggcggggcg	cgccaacacc	catctcctcg	tcgaggagta	ctcgccccgc	ccggacgacc	54300
ggggggacga	gggcgcggtc	ccgggcggcg	tcacgtcccc	gctgtccgcc	cggaccgcgg	54360
ggcagctgcg	cgcgtagccc	gcgacgctgg	cggacgacct	ggagcgccgc	tcgcgcccgc	54420
gcggccacgg	cgagcggggc	ctcgccgatc	gcgacctgac	cgccgtggca	tataacctcc	54480
aggtcgggcg	agaggccatg	aacgagcgct	cggccatcgt	gaccgcgagc	ctcggcgatc	54540
tcatcacgaa	gctgaggcag	ctcgccgcgg	gccagacgga	cgtagacgat	ctccatgtgg	54600
gcagcgccgc	ggcgtcgctc	tccgcctga	tgctcgacgg	ccgcgagggc	caggcggttc	54660
tctcgatcct	cgtggaggac	ggtcgccacg	acaagctggc	ccggctctgg	gtgagcgggc	54720
cccggatcga	ctggcggacg	ctttacggcg	gctcgacgcc	gaggcccctg	tcgctgcccc	54780
actacccctt	tgccggcgac	cgccactggc	tcgacgacga	ggcgctgccg	catggcgccg	54840
cctggagcgc	gaccgcggcg	cctccggccc	agaccgcgcg	ctggagcgcg	accgcggcgc	54900
ctccggcccc	cgccgcggat	cctgggggtg	cggcgccgcc	cgaggggcca	ggcggcgcg	54960
ctccgggcgg	cgcgcccccg	cagcgcatcg	cgcaggagct	cacggcgatg	gtctgcgatg	55020
tcctcaagat	gcaggccagg	gacgtcgacg	gggacgaggc	gctccgcaac	tacggcatgg	55080
attcccgcct	ctccgccgcc	ttcatgcggt	cgggtgcagca	gcggtacggg	tcgagcgtag	55140
cgctcagcgc	cgcgcacacc	catcccacct	tgaaccagct	cacggcccac	attcatggcc	55200
tcctgagcag	caacggcgca	gcccggcacc	cgtccgcgcg	gcccctcgcc	gcgacctcgc	55260
cgtcgatcgc	cacggccccg	gcggcctccg	cagccccggc	ggcctccgcg	gccccggcgg	55320
cctccgcagc	ccccgcggcc	tccgcagccc	cggcggcctc	cgcgcccccc	gcggcctccg	55380
cggcctccgc	agtccccggc	gcgctccacg	aggctccggc	gcctgatccg	cgcgcggggg	55440
acgcacggcc	cggggcgga	agcatcgccc	cgcagcccga	gccggggccc	aacccccgacg	55500
agctcgtcgt	catcaacccg	cgcggtcac	gcgggagctc	gttctgggtg	cacggcgcg	55560

ctgggctcgc	gcagccgctc	tatcccctgt	ctgccgcgct	cggcacggat	taccggttct	55620
tcgccttcca	ggcccggggc	gtcgacgggc	tcgccatgcc	cttcacgagc	atcgaggaga	55680
tcgcggccca	ttacgtcgcc	tgectgcggc	agcgtagtcc	gagagggcct	tacgtcgtgg	55740
gtgggctgtc	ctccggcggc	atcatcgctt	tcgagatggc	ccggcagctc	ctctcgcaag	55800
gggagcgcg	ctcccggctg	gtcatgctcg	acacctatcc	cgcggtcgcg	ggcctcgcgc	55860
aggagacgcc	gggcgacatc	gacccgatcc	tgccgctcct	gctcatggcc	aactccttca	55920
tcagcttoga	tcgcgacgga	gacacggcga	tcaagcccga	cgacctcgcc	gggctccccc	55980
ccccgatgca	gctcccgcgg	gcggtgcagc	tgatcaagga	gcggagccgc	accgcgctca	56040
gccgtgatca	gatctacagg	atgctgaacg	ggaacatcgc	tgtctacaag	cacctcgacc	56100
tcgcgtgcag	gaagtaccag	cccggggctc	tcgacgccgt	ggacgtcctg	ttcttcaaag	56160
cggagaaagg	cttcttcggc	ggagcgaacc	cgctggggct	gcccattcctg	gacgtgtttt	56220
cctcctatga	ctatgtgacc	ccgtggcgcc	agtggatacg	cggaggcctg	caggtcgtgg	56280
agctgccttg	cgcgcacgtc	gacctcctgg	agcccccggc	gctccaccag	gtggtcgcgc	56340
acgtccgcga	ggcgctttca	tgacaggtga	gcggcgcgcg	ggcgccgagc	ccgcgggcgc	56400
cggagccgcg	ggcgccgagc	ccgcgcgcgc	cattgcgttt	gatatcgagc	gatccgcatg	56460
atagacgacc	ccgcgctgaa	ccctacgtgg	tctcgaccgc	tgagccagcg	attccgggga	56520
tcaagcgctc	tcccggtggc	agctcgcgcg	tgctggttgc	ggagcgccga	gccagaccgg	56580
accgagccag	gcagccaggg	agagcgcagc	gctgcgcgac	gaggtgccct	ccttgcacag	56640
ggcgacgagg	agcgacgacg	cgatgcgccc	gccctcggct	gcgcggcgac	gggaggtctt	56700
gagagaggcc	ctctcggggc	cgatgacaga	caatcagccg	acaaggctct	caacggacgg	56760
aaatttacat	gacatcgatg	gcgcgacacc	tgacatcca	cgaggagctc	ccccagaccg	56820
ctccgctgcc	gccacgcgcg	atccagtggc	gcaaggcggt	tcggctggcc	aaggagctta	56880
cggagaagcc	cttcaccgcc	gagctctcct	acgagctcat	cttgtcgtc	gacggcgggg	56940
cgaccgagcg	catgtttcaa	gacttcctcg	ccgagccggg	ggcgcgcgcg	ctgatccaga	57000
agcgcccca	cctggccgcg	acgtgtccg	acctggatct	cctcggatcc	atgccagagg	57060
gcagcttggg	ccgcacctac	aaggagatga	cggagcggga	cgggtacgct	gtcaacggga	57120
tcatccatgt	gatgaaggcg	gtcccgaact	tccaggaggt	ggcgccggat	ccccttcgcc	57180
agtggttcag	cttcgcggc	gcggtgctcc	acgacgtcgc	ccatgcgctc	acggggtacg	57240
ggcgtgacct	cgcgggcgag	gtcgcgctcg	gcctctacct	cgcgggcggt	taccgcgcgt	57300
accggagcgg	ggtcgtgtat	tcgttcatca	ccgcgctcgc	gtcggtcacg	gcgccgcagg	57360

accagaagct cgcgaaccta tctacctgc gcgacgtgtg gatccgcggc cgccgctcgc 57420
 gcatccccct cagcgcgccc tgggaggacc tgctcccgt ccaggtggag gaggtgtgcc 57480
 gtatgtacca ggtcccgtc gtgcgcgaga cgcacgcgga gggcatcctc cgcgatgcgt 57540
 tcgagaaagg tccctggata ccgtcgttca aggcgcagag ctgggcatag ccggcccgcg 57600
 cgccgaggcg agcccctggc gggcacgtcg tggcggcgcg cctcctcccc gcggcgcgac 57660
 gggctccctc gcgcgcggg gagggaggcg gcccgctctt ctgcatgacc cctgtgcaag 57720
 aaccctgagg cggcctgggg gccgaggaag aaccgatga agcatacatg tttcccgggc 57780
 aagggtctca ggcgaagggg atgggacggg cgctgttcga cgccttcccc gcgctcacgg 57840
 ccagagcggg tggggctcctt ggctactcca tccgggcgct gtgccaggac gatcctgac 57900
 agcgcttgag ccagaccag ttcaccacgc cggccctcta cgtggtcaac gccttgctcg 57960
 acctgaagag gcgcgaggag gaggtcccc ccgatttctt ggccggccac agcctgggcg 58020
 agttcagcgc cctgttcgcc gcgggggtgt tcgacttcga gaccggcctc gcgctggtga 58080
 agaagcgagg agagctgatg ggcgatgccc gcggcgcgcg gatggccgcg gtcacgggtc 58140
 tggacgagga gcgggttcgc gagctcctcg accagaacgg cgccacggcg gtcgacatcg 58200
 ccaacctcaa cagcccatct caggtggtga tctcgggggc gaaggacgag atcgcccgc 58260
 tgcaggctcc cttcgaggcg gcaggggcga agaagtacac agtcctgcgc gtgagcgccg 58320
 ctttccattc ccgcttcag cgaccggcga tggtcgagtt cgggcgggtc ctggagggct 58380
 atgatttcgc gcctccgaag atcccgtga tctccaacgt gaccgcccgg ccctgcaagg 58440
 ccgatggcat ccgcgcggcc ttgagcgagc agatcgccag tccggtccgg tggtcgagt 58500
 cgatacgta cctgatgggc aggggcgtcg aggagtctgt ggagtgcggc caccgcatcg 58560
 tcttgaccgg cctgtacgcc cagatccgtc gagacgcca gccctcgtc gtcgacgagg 58620
 gcgcggccgg gctcgaccgg cggggtccgc cggcggaggg ccggtcgccg gctgccttcg 58680
 gtcacatcag gctggcgggc cccgcgcaga acggggcggc ggcgcccgcg cagaacgggg 58740
 cggcggcgcc cgcgcggcg gcgcatgcgg ccgcggcgca tgcgcccgcg cagaacgggg 58800
 cggcggcgcc cgcgcagaac ggggcagcgg cgcccgcgcc ggcggcgcgt gcggccgcgg 58860
 cgcacatgcgc ggcgcgaac ggggcggcgt cgccggagcc ggcggcgccc gcgcgaggg 58920
 gggccaggcg gatctcgtc gaggtgctgg gcagcgccgc gttccgggag gactaccgt 58980
 tgcgctacgc gtatgtcgc ggctcgttg tcgatgggat ctctccaag gagatgatcg 59040
 tgcgcatggg caaggcgggc ctgatcggt atctcgggac caagggggtg gcgctggacg 59100
 ccgtcaggc gtcgacctc cacatccagc gcgagctccg cgggtggtgag agctacgggg 59160
 tgagcctgtg gtgcgacatg gacgactcgc acctcgaatg gcagagcgtc gcgctctacc 59220

tcaagcacga	tattcgggtac	gtcgaggcg	tcgcctacat	gcagataacg	ccggcccttg	59280
tctgctatcg	tctcaagggc	gctcaccg	atcaccg	cagggcagcc	acgcctcggc	59340
gcgtgctcgc	caggggtctc	aacctcgagg	tcgcccgggc	gttcatgagc	cccgtgcgg	59400
atcacgtcct	cgatcagctc	gtgaaggacg	ggcggtcac	gcgcgaggag	ggcgcgctcg	59460
gccgggagct	ccccatcagc	gacgacctgt	gcgcgcacgc	cgactccggc	ggccccacgg	59520
acatggggac	ggcagcggtg	ctgatgcgg	ccatggcgcg	gctgcgcgac	gacatgatga	59580
cgcggtacgg	gtacgaaaag	cggatccg	tcggcatggc	cggcggcctc	ggcgccccgg	59640
aggcggtcgc	gtccgcgttc	atgctggggg	ccgacttcat	cgtcaccaac	tccgtgaacc	59700
agtgctcgcc	ggaggcgagc	accagcgacc	gggtcaagga	catgctgcag	gccgcgagcg	59760
tccacgacac	cgcgtatg	cccgcggcg	acctgttcga	gatgggagcc	cgggtccagg	59820
tcctcaagcg	tggcgtgctc	ttccccgcgc	gggccaaccg	cctgtacgag	ctctaccggc	59880
actaccgctc	cctggacg	ctcgacgcga	ggaccaggga	tcagctcgag	aagcactatt	59940
tcaggcgcgga	tctcgacgat	gtctggcg	atgcgtgtc	tcgccggccg	gggacgcgcc	60000
cggcgga	ggccaggacg	gagcgcgacc	ccaagcacag	gatgtccctc	gtcttcgggt	60060
ggtatttgcg	ccactgctcg	gagctggcg	ggcgagggga	cgaggagaat	cgggtgaact	60120
accaagtcca	ctgcggg	gccatggcg	ccttcaacca	gtgggcgaag	ggcacggatc	60180
tggaggactg	gcgcaaccgc	catgtcgatg	tgatcgccga	gcgcctgatg	cgggcgtccg	60240
ccgatctcct	cgatcaccgc	atgcgcgcgc	tctcgcggtg	gcgagctcga	ggtgcatcgt	60300
acccttgag	gcccattggt	gctcgagaca	gccgacgaag	acgtaagggg	cgagccgccc	60360
gccctcacc	gccccgcgtc	ttctccgct	tctgcgcgcg	caccatctcc	gcgatccaga	60420
ccggcgcgaa	cggcggcgtg	cagcccggcg	acgccggata	gtctttgagc	acctcgagcc	60480
gctcgccgat	ggcgatggcg	cgggcgcgca	gcccggggtt	gcggatgccg	atctcggcga	60540
ggcagtgggt	catcgaccac	tgcttcgggc	ccggcgccgt	cttcatctcc	gcctcgatct	60600
ggtcgagcag	cgcggggaga	tcgaggccgg	cagggtctt	cacgacgcgg	tccgtcgtca	60660
ggctccatcc	ggcgcgcccg	accagctcgc	tcgcggagtc	cttccagcg	acacgcagct	60720
cctcggcgtg	gcgcgacgcc	ttcaccacgt	tgacgatgaa	ccagtcgagc	agcttgggggt	60780
agccgatctc	ccggaccatc	gcgtccagct	cgtccgccga	gaaggccttc	ggcttgaaca	60840
cgagcgtcgc	caggaggcg	gcgtcggggt	ccccggtgcg	ccacagctcg	ccggccagg	60900
cgtggtcgga	cttcagctgc	ttcgccagcg	cgcggagctg	ggtgagggtc	acgccgtggg	60960
cgtctccggc	gcgggcgttg	acctcgcgca	tcttctcggt	gccagcgcg	gcgagctccc	61020

gcatgacgtg	ggtgacgttc	atgggctcgg	gctagccgta	tccgcgggcg	tcgtccagcg	61080
gcgcggcgtc	gcgggggagg	accagccgcg	ttcctgggat	ggatcgcggc	cgtggctcgg	61140
ctgcgcgccc	ggccgtcgat	ccgcgcgccc	gctggcggat	accgccccct	ggcgcggcgg	61200
acggcgcgcg	ggcgctcagg	gagcgggggt	gaaggcgacg	gtgagcgtgt	aggggcccgc	61260
gtccatcggc	ctgtaggtgt	cgacgacgac	gaacaggggc	tcaccgccgg	tgacatcgat	61320
cacgagcgtc	tcgtcatcgc	cgcggccttc	gtcgtcgacg	cactcgatct	cggcgtcgaa	61380
gtccgcgcag	cgctcgcgca	ggtagaagcc	caagtcggtc	tcggcgga	gcgtcagcgt	61440
gagcgtgccg	tcgctcggcg	gcgtgaaccg	gtggatcgtc	tccggcacgt	cccatccgag	61500
gcagctgccc	tcgaacgccg	acgtagcggt	cgccgtgttg	cccgtgttct	cgccgatggc	61560
gagctcggcc	gcgcctcgc	acagcacgtc	gagctcgtag	gcgcacgtgg	cggagcatcc	61620
atcgccgctc	gtggtgttgc	cgctcgcgca	ctcctcgatc	gcgtcgacgg	ccccgtcgcc	61680
gcagacgac	ggcggaagc	tgacgttcag	cgtgtaggga	ccggcctccc	ccggctcgta	61740
ggagtcgacg	acgatcgga	cggctctggc	gtcgctcacg	tagatctcga	tccgctcttc	61800
gtcggggaag	ccatcgagg	ggtagctctc	gtcggagcag	tcgatctcgg	agagcatgtc	61860
cgcgcacgag	ctgcgggct	agacgctatg	atcggtcggc	gactcgagct	cgaccacgag	61920
cgtgcccgac	tgcccgggcg	gcggcggtga	cagggtggtc	tcttcgggtc	cgtgccccgt	61980
gttgccgagg	tagcaggtcc	cttccagcgc	gctcgtgctc	tccgacgtgt	cgccgtggat	62040
cgctcgcgag	acgatgggtg	tcgcgctcgc	gcaggcgggc	tcggcgatcg	gggtgcaggt	62100
cgcggcgag	tcggtgtccg	cgcaatcgta	ggacccgctc	ccgtcgtcgt	cctcgtagtt	62160
cgtgcagtcc	gtctcgccga	gcgtgcagac	gccgctcagg	gtgtcgca	cgccgagcga	62220
ggggcactgc	gcgttcgagg	tgacacctcg	gacgcaggcc	cggatgccgc	cgccgatgtc	62280
ctcgcaggca	taaccgtcgc	ggcactccga	cgacgcgctg	cagagcgaaa	ggcacgctcc	62340
cacgccgtcg	aagagatcaa	gacagacccc	gccgtcgcac	tctccgcccg	gcgctggctc	62400
ggccgcggga	tcacacaggt	ccgagcagag	cccggatggg	tatcccaatt	cctcctcgga	62460
gaggcagatg	tccccggtgc	actcatcgtc	cgctcgcgag	gcctcgtaca	gcgcgcccgc	62520
cggccccgccg	ccggtgccgg	tgggctcgcc	gccgccgccg	ccgccgccgg	taggctcgcc	62580
gccgccgccg	ccgccggtag	gctcgccgcc	gccgccgccg	ccggtgggct	cgccgccgcc	62640
gccgccgccg	ccgccggtag	gctcgccgcc	gccgccgccg	ccggtgggct	cgccgccgcc	62700
gccgccgccg	gtgggctcgc	cgccgccgcc	gccgccggta	ggctcgccgc	cgccgccgcc	62760
gccgccggtg	ggctcgccgc	cgccgccgcc	gccgccggtg	ggctcgccgc	cgccgccgcc	62820
gccgccggtg	ggctcgccgc	cgccgccgcc	gccgggtggc	tcgccgccgc	cgccgccgcc	62880

ggtgggctcg	ccgccgcgcg	cgccggtgcc	agttccggtg	ctcgtggcgt	cgatgccgcc	62940
ggcaccgcca	gcgccgcg	agccgccatg	gccgccggcg	ccgccctggc	cgtcacgcgc	63000
tccgcatccc	gcggtcgccg	acagcgccag	cacgaaaaga	cctgcaacga	ttcgtacgtt	63060
catccacctg	ctccaacgca	agagagagtt	gtcgtgacgc	gaggtgcgcc	tcaccccgcg	63120
gcgccgcgtg	atgccatctt	cggcgcaacc	gctccgcctg	ccaatcccc	tttcatgggg	63180
gccgcctgcc	tcggcgcgcg	ccggtgtgcg	cggtcgccgg	atccgaccgg	ggctgcgcac	63240
cgccatgaga	atccgcgcgc	ggagcacaca	atgcgcctgc	atcgtctgct	gcgaggggctg	63300
ctcttctttc	atcgaacgtt	ccgggctcgc	ccttcgacga	tactccaatg	agggtcgttg	63360
tctcaggcac	attggcacgg	agggtccac	agcccagcgg	ggtgacctcc	tggggtagct	63420
cgtgttgatc	aggaagctcc	atccggagag	cctgccgcga	atacctgggc	gaaagcagga	63480
tcgggatccg	agtcgagcga	ccaggcgcg	ggccctatgc	gctgtcgagc	aggatggccc	63540
cgatcttcat	gcgcacccgc	tccaggtgcg	cctggcgggcg	acggccaacc	acactctccc	63600
acttgaacgt	gtcatcagca	ctgcgttcgg	ctcctcaggt	tgtgtgaacg	ttcacatttg	63660
gtctatcatg	ccggcactcg	aggcgcttga	acgcgtcatc	agcattttgt	tcggctctcc	63720
aggttgtgtg	aacgttcaca	tttggtctat	catgccggca	ctcgaggcgc	ttcgacaagg	63780
tgggccgatg	tccgtttctc	gccgcggagg	aaatttatga	tcaaatggt	caacggcgca	63840
gcgctgctcg	ccgtgctcgc	cgcagggtcc	ctgacgctgg	ccgcgtgcgg	tcgcagcgac	63900
gacggcgcgt	ccggcgga	ggagctgcgg	gtctggcact	acgaggtcc	cgagagcgcc	63960
atgggcgtgg	cctggagcga	ggccatcaag	gagttcgagg	cgacccatcc	gggcgtgaag	64020
gtcaagctcg	aggagaagg	cttcgagcag	atccagaaga	ccgcgcccat	gatcatgaac	64080
tccaagagcg	ccccgacgt	catggagtac	aacaagggca	acgcgaccgc	cgggctgctg	64140
tccaggcagg	gcctgctcca	ggacctcacc	cccaggcca	cgaagcgcg	ctgggacaag	64200
ctgatcagcc	ccggcgtgca	ggtcgtcgcc	aggtacgacg	aaaaggcat	catgggcggc	64260
gacacgtggt	acggggtgcc	caactacgcc	gagtacgtgc	aggtctacta	caacaaggac	64320
ctgttcaaga	agtacgacgt	caaggtcccg	accacgttcg	acgagctcac	cagggcgatg	64380
gacgcgttcg	tcgccaagg	cgtgacgccg	ctggccaacg	ccggcgccga	gtacatggcg	64440
cagcagtacg	tctaccagct	cgcgctggac	aaggccgacc	agccgtgggt	gagcgcgttc	64500
cagcgtaca	ccggcaagac	cgacttcacc	gacccggcat	ggacgtacgg	ggcgacgacg	64560
ttcgccgact	gggtgacgaa	gggctacatc	gccaagagct	cggtcagcac	caaggccgag	64620
gatgccggcg	tggcgttcat	gagcggcaag	atcccgatga	tgttctccgg	gagctggtgg	64680

ttcggg	cgcg	tggcca	agga	ggccaa	attc	gactgg	gata	ccttcg	tg	tg	gccc	ggcg	gcc	64740
aagatg	accc	tcggat	cg	ggcaac	ctg	tgggtc	gtcc	cg	ggcg	gg	gata	gaaga	acaag	64800
cagctc	gcct	acgact	tc	cat	cgacat	cacg	ctga	aga	aga	agatcc	agaa	catcct	cg	64860
aacgcg	ggcg	gcgtcc	cg	gt	ggcg	cg	ac	agctc	ggcca	tcaccg	agcc	cagggc	cagg	64920
aagctc	atcg	acggct	tcaa	caccct	cgc	cagtcg	agcg	gcctgg	cgta	ctacc	cg	gac		64980
tggccg	gtcg	cg	ggttcta	cgacc	agtgg	gtctc	gcaga	cccaga	agct	catga	ac	ggc		65040
gatccg	cccg	ggtc	ggtgct	cagc	ggcatc	caga	agacct	acgac	agcg	cctg	cccaag			65100
tgacg	acacg	cagctc	gaca	gggc	gtgacc	ggctc	gccta	ccttc	ccctac	ctgat	ccccg			65160
ggctg	ctgct	gttcac	cg	gtcat	cgg	cg	ccgttcct	gatga	acatc	gggac	cagct			65220
tcaccg	actg	ggccgg	cg	gc	ccccga	agtgg	gtgg	gctgg	acaac	taccg	ggagc			65280
tggcg	accga	cggtg	agttc	tggg	cg	tcgt		tccgga	acaa	cg	tctg	gtc	atcg	65340
tggcg	atcgt	cccga	cgtg	atcgg	gtcg	tgctg	gcctc	cg	ccctgacc	gacct	gatcg			65400
accggc	actt	cg	ccccgc	gc	ccagcg	tcctg	cg	cg	ctac	ctg	ccgc	cagg		65460
tcctg	ccgat	cg	tcacg	gc	ggcat	cgtct	ggag	ctg	gct	gc	cccc	gaga	acgg	65520
cggtg	aacga	cctg	ctgg	gc	gatc	gg	gc	tcg	ctg	ct	gc	ggcg		65580
atccc	gccac	cg	cgtg	tg	agcgt	catg	gggt	catg	gt	ctgg	atccag	atcg	gattcc	65640
ccctc	gtgat	cttc	atgtcc	ggg	ctgc	agc	gcgtg	gaccc	ctc	actgtac	gagg	cg	ggccg	65700
agatc	gacgg	cg	cctc	gtgg	gcgc	agcg	tctg	gcacgt	cac	gatccccg	cagat	caggc		65760
ccgag	ctctt	cg	tggtg	ctg	ctgtg	gacga	cgatc	gc	gctca	aggcg	ttccc	gcaca		65820
tcttc	gtgct	cacg	aggggc	gg	ccccgggag	gcgc	gaccaa	cg	tgcc	gtcc	tactact	ctct		65880
acgtc	aat	cttc	gagaag	accg	acgtc	gc	tacgg	ctc	ggcg	atcgcc	accgt	gatga		65940
cgctg	atcat	cctc	gc	gtc	accgt	cgcct	tcctg	cg	gct	gaggg	ccgt	gagcc	ggggg	66000
aagag	cggtg	accgt	gacgc	tgg	cccagag	ccc	gggggagc	gcccc	cg	gc	ccggcc			66060
gcggc	ggcg	cg	ccgggg	gtc	cg	tcgg	gccta	cg	cg	gc	gctg	ccg	ggc	66120
cgggat	catg	ttgat	ccccct	tcg	ccgtg	gt	gttcaac	gcg	ctga	aga	cgccg	gagga		66180
gtacac	cgcc	aacg	gccccg	tcg	ccccgc	ggag	ggaatc	catct	c	gag	ggat	caagga		66240
cttct	gggag	cg	cgtc	ggct	tcgg	ccatgt	cctgtt	caac	agc	ctg	ctca	tcag	cg	66300
ggtg	g	ccgtg	ccg	tg	ctg	tcgg	gt	gctga	ac	gc	tacg	c	g	66360
gatca	agggc	cg	gacgt	ggg	tg	ctt	gtcct	gctg	ctgatg	gcca	acacgc	tgccg	cagga	66420
gtc	gctg	gtc	taccc	gctgt	actac	ctggc	caacg	agctc	ggg	ctctacg	acaccc	ggat		66480
cagc	gtcatc	ctc	gtgttca	ccgt	catcca	gagc	gcgttc	ggc	ac	ctacc	tgctg	tc	gtc	66540

ggtgatgtcg	gcgttcccc	ggcgcgtgct	ggatgcggcg	cagatagacg	gcgccagccg	66600
gtggcagatc	ctgtggcggg	tggtcgtgcc	ggtcgtgcgg	cccacgctgg	cggtgatgct	66660
cgtcttcttc	ttcatctgga	cctggaacga	gttcctgacg	cccctcgtct	tcctcatctc	66720
caacgacaac	cagacggtct	cggtcgcgct	cggcgtgctg	caggggcagc	ggctgatgga	66780
cgccaccatg	tcgagcgccg	ccgcgctgct	cggcctgctg	ccgaccgtcg	tcttcttctt	66840
catcttccag	cgcacgctat	cgcgcggact	cacagcagga	gcgatcaagg	aatgaagtcc	66900
accgacggtt	actggatgat	gcgcaagggc	gtgcacgcgg	tttaccgcgg	ggaggtcctc	66960
gacgtcgacg	ccgggcccgg	gtcgttcgtc	gtgcacgcgc	ccgtccagcg	gatccggcac	67020
cgcggcgacc	tgctcaaggg	cccggtggtg	accgtctcct	gcgcgtcccc	gatgccggac	67080
gtcatagccg	tcaccatcac	gcacttcgcg	ggcgagcggc	cccgcggccc	ggcgttcgcg	67140
ctggccaccg	acccgaccgg	ggaggtgacg	gtggacgagg	acgcggccac	gctgacctcc	67200
ggcgcgctgt	cgggtgcggg	cgggcgccgg	gaggggtgga	ggctggactt	cgtggccggg	67260
ggccgcgcgc	tcaccggcag	cgcgcagaag	gcgatggcga	tcctcgacac	cgacgacggc	67320
cgccactacg	tgcgcgagca	gctcgacctc	ggcgtggacc	acttcgtgta	cggcctcggc	67380
gagcgcttcg	ggccgctggg	caagaacggc	caggccgtcg	acatctggaa	cgccgacggc	67440
ggcacgtcca	gcgagcaggc	gtacaagaac	gtgccgttct	tcctcaccaa	cgcgggctac	67500
ggcgtgttcg	tcgacctacc	cgggcgcggt	tcgttcgagg	tggcctccga	ggcgatggcg	67560
cgggcgcagt	tcagcgtcga	gggccagtcg	atgcgctact	tcctcatcta	cgggccgaag	67620
ccgagggaga	tcctgcgcaa	gtacaccgcg	ctcaccgggc	ggcccgcgcg	ggtgccggtc	67680
tggtcgtacg	ggctgtggct	gtccacctcg	ttcaccaccg	agtacgacga	ggcgaccgtc	67740
acctcgttca	tcgacggaat	ggccgagcgg	ggcctgccgc	tcagcgtctt	ccacttcgac	67800
tgcttctgga	tgcgcgagct	ccagtgggtc	gatttcgagt	gggaccgcgg	cgtgttcccc	67860
gaccgcgccg	ggatgctgcg	ccggctcagg	gggcgcggcc	tgcgcgctct	cgtctggatc	67920
aacctctaca	tcgggcagcg	ctcgccgctg	ttcgaggagg	gcagggcgcg	cggctacctg	67980
ctgcggcggc	cgaacggcga	cgtgtggcag	tgggacctgt	ggcagccggg	cctggccgct	68040
gtcgacttca	ccaaccccga	ggcccgcgcc	tggtacgccg	ccaagctcga	cgcgctgctc	68100
gacatgggcg	tggactgctt	caagaccgac	ttcggcgagc	gcatccccac	cgacgtcgtc	68160
taccacgacg	ggtccgaccc	ggaacgcgcg	cacaactact	acgcctacct	ctacaacaag	68220
acggtgttcg	agctcttgcg	cgagcggcgc	ggcgagggcg	aggcggtcgt	gtttgcccgc	68280
tccgccacgg	cgggcgggca	gcagttcccc	gtgcactggg	gcggcgactg	cgagtcgacg	68340

ttcgagggca	tgggggagag	cctgcgaggc	ggcctgtcgc	tgggcatgtc	gggattcggc	68400
ttctggagcc	acgacatcgg	cgggttcgag	ggcacccccg	acccggcgct	gttcaagcga	68460
tggatcgctg	tccgggtgct	gtcgtcgac	agccggctgc	acgggagccg	ctcctaccgg	68520
gtgccatggc	tgttcgacga	cgaggcggtg	gaggtgctgc	ggcgcttcag	ccggctgaag	68580
atgcggctga	tgcctacct	ggccggggcc	gcgcggcagg	cgtacgtcga	gggcttgccg	68640
atgatgcgcg	cgatggctgt	cgagttcccg	gacgaccg	cctgcacgca	cctggagcgg	68700
cagtacatgc	tgggcggcga	cctgctcgtg	gcgcccgtct	tctccgccga	cggggagctc	68760
tcttattatg	tgccgcgcgg	cgtgtggacg	cgctatctca	ccggcgagcg	cgtcgagggc	68820
ggccgctggg	tgcgcgagcg	ccaagggttc	gacagcgcg	cgtgctcgt	ccggccgggg	68880
gcggtgatcc	ccgagggcgc	ggtggaggac	cgccccgact	acgaccacgc	ggcgggtgtg	68940
acgctgcgcg	tgtacgagcc	ggcggaaggc	gcccgcgtca	tgaccgtgat	cccgggcgcg	69000
ggcggggacg	cggtcacgac	gttcaccacg	tcacgggacg	gcccgggtgt	gcgggtggag	69060
gccgcggggc	ccccaggtgc	ctggaacgtt	ctcctcgtca	accgccgcgt	cgtggccggt	69120
gaaggcgggg	agagcgcgga	gcaccgcgga	ggagcgctgg	tcagggcggc	cggcggcgag	69180
ctggtcatca	cgctggaggg	ggagggtcca	accgcggcat	ccgtccccag	aggagacgac	69240
cgatgaagga	ctgacggggc	cgccgcagag	caaggcgcg	gcgccgtaga	accgctctac	69300
gctgcccacg	aagatgcgcg	tccggcgct	gaacagcgac	gttgccgcga	ggtccggagt	69360
ctgcgcgacg	gagcgccggc	cgcgcggcrg	atcctcgtcg	ccagccggcg	atcgatcgcg	69420
ccgcaaattg	cttgtatgcc	tgtgtttatc	gacgagggag	cgcgcctctc	gatatagaat	69480
gacgtcacgc	gctgtacgat	cctgctcgac	ggctgagcgc	aatgggtttt	accctgggct	69540
catgtccact	tgggtctagat	ttcgccggat	cgtgcctcc	gcaccgctcg	tcctcgcgct	69600
ggcgctccac	ccctcgggtt	cgagcgcgag	tgacatgctg	ccattccagg	atcccggctt	69660
gtcgatcgag	ctccgcgtcc	gcgacctcct	cgggcggctc	acgctcgacg	agaagctctc	69720
gctcctgcat	cagttccagc	ctgccattcc	gcggctcggg	attccggact	tcaaggccgg	69780
caccgaggcg	ctgcacggcg	tggcctggtc	gaccgatcgc	gacaacggcg	gcgcgcgtct	69840
gacggcgacc	ggcacggtgt	tcccgcaggc	gatcggcctg	gcgacgacct	ggaaccgcga	69900
tctcgtccgg	caggtcggcg	aggctgtcgg	agacgaggtt	cgcggctatc	acgcgctcgc	69960
ccctcgcac	tggggctctgc	aggtgtgggc	gcccgtggtc	aacctcctgc	gcgaccgcgc	70020
ctggggggcg	aacgaggagg	gctactccga	ggacccactc	ctctccgggtg	tgatcgccgc	70080
cgcatacggg	cgcgggtctc	agggggacga	cccgtcttac	ctgaagaccg	cgcgggtcat	70140
caaacactat	ctcgccaaca	acaacgagat	ccatcgtgac	accacgtcgt	cgaacctgcg	70200

ccccgcgtg	aagcacgagt	acgacgagct	ggccttcaag	atgcccacg	ccgccgacgc	70260
cgtgaccggc	gtcatgacat	cctacaacct	ggtcaacggc	aggccggcca	ccgtcaacct	70320
ggatgtcggc	gacgtcgtgc	ggagttggac	ggagaagacg	ctctacaacg	tgtccgacgc	70380
ctgggcccc	tacaacttga	ccggctccca	gcggtacttc	gccacgaacg	aggaggcctt	70440
cgcggccacg	ctcctggccg	gagtggacag	cttcaccgtc	gacaacaacg	acagcgcgcc	70500
caccatcgag	attctccgct	cggcgctcgc	gcaagggtc	ctcaccgagg	aggacatoga	70560
cgtttccgtc	gagcacgtcc	tttccgtccg	gctccggctc	ggcgatttcg	atccggacgg	70620
gggccccctac	gccggtatcg	ggcccagagt	catcgacacg	ccggcgcacc	gccagctggc	70680
ccgccggggc	gccggcgagg	ccatggtgct	gctcgagaac	aggcgtcgcc	tcttgccgct	70740
ggacccgtcg	gccacgcggc	ggatcgcggt	cgtcggggcc	ctctcggaca	cgctctacac	70800
ggactggtac	tccggggccc	tcccgtaaccg	ggtcacgccc	ctggacggca	tccgcgagcg	70860
gctcagcggc	gccacggctc	tctccagcga	gggcgtggac	cgcacgtgc	tgcgcgacgt	70920
cgcgagcggc	cgctacgtga	ccgcgcggcg	ggacgaggac	ggggacgtcc	tgcgcgtcag	70980
cgcggtcagc	gcggggccca	ccgaggagtt	cgacgtgttc	gactgggggc	agggcatcgt	71040
tacgctgcgc	agcgcggcca	acggcaaggt	ggtcgaccgc	ttcaacttcg	gccccaaactt	71100
cgcgaaccgc	gccgcccagc	cgtacgactg	gttcgtccag	cagcagctcg	tcttcgagcc	71160
gcagagcgc	ggcacgcacg	tcatccgcta	cgccggatac	gagaaggcgt	tcgactgggc	71220
cggacccgag	gtctacctga	ccatcgccga	ggacggcgcg	ctcgccttga	ccgcgaccga	71280
cgcggccgac	gcggcgcgct	tcgaggtcga	cgtggtccgg	agcggcgctc	acgaagccgt	71340
gcgcgtggcg	acaggcgccg	acgcgcgcgt	ggtcgtcgtc	ggcagtatgc	cgttcatcaa	71400
cgggcgggag	gatcacgacc	gcacgacgat	ggcgctggcc	gaggggcagt	ccgccctggt	71460
acgggcggtg	ctcgccgcca	atccgcgcac	catcctcgtg	gtcgagacca	gctatccgat	71520
gaccatgcca	tgggagaagc	tccacgtccc	cgccatcctg	tggaccaccc	atgcgggcca	71580
ggagaccggc	catgccatct	ccgacgtcct	cttcggcgac	cacaatcccg	ccgggcgact	71640
gaccagacc	tggtaccgct	cggcggacga	cctgccggat	atcctcgagt	acgacatcat	71700
caaggccccg	cggacctatc	tctacttcga	cggtgagccg	ctctatccgt	tcgggtacgg	71760
gctgtcgtac	tcgacctttg	gctacgaaa	cctccagctg	agcgcgccgt	cggtcacggc	71820
cggcgacccg	atctcgggtc	gcgtcgacgt	cacgaacacg	agcccgcggg	ccggcgacga	71880
ggtcgttcag	ctctacagcc	gccagccgtc	gtcgcgcgat	ccgcagcccg	ccaagcagct	71940
gcgggcggtt	cggcggatcc	acctcgatcc	gggcgagagg	cggacggctc	agctcgattt	72000

cgccgcctcc	gacctcgccc	actgggacgt	gacgcggagc	cgctgggtcc	tcgaggcgac	72060
tggcgctcgag	ctgatggtcg	gtcctctctc	ggccgacatc	cgccggcgca	cgaccgtgcg	72120
cgtgcgcggc	gagcgcaccc	cgccgcgcga	cctcgcccgc	gagacgcgag	cgctcgactt	72180
cgacgactac	gccggcatcg	agctggtcga	cgagagcatg	gagtggggcg	atgccgtagg	72240
cgccaccgcg	ggcggctggc	tccgcttctc	cgacgtggag	ctggggcgcg	gtgccagcca	72300
cttcagcggc	gggttcgccc	gcgcgcaggc	gggcgacgcg	ctcgtcgaga	tccggctcga	72360
cgatccggtc	cgcggaagg	tggttgggac	cgccgtcgtg	ccgagcacgg	gcgacgtgta	72420
cgcctacgcc	accgtgaccg	ccgagctcga	cgccgctcgc	gggcgacacg	acgtctacct	72480
cgtgttccgt	ggagccgccc	gcctgtcgac	cttcgcgacg	gactgagggg	cggttcgccc	72540
agcgcagggc	caggcgcggc	cgccgtgggtg	acggcagccg	acctcgtgat	gccctccctc	72600
ctgccccgcg	ctcgagcgcg	cagcggagct	cttcgcgacg	gtccggtgcc	cgccgcgcgc	72660
ggagctgccc	ccggcgga	aacagcggaa	gatgcgggaa	tcgcagtgct	ttctggcggg	72720
acctccgacg	cgcgaaaccg	gcccgcgcg	acggacgatg	tcgcggcaat	gatgcacaga	72780
gcctgttagg	ctgcgcggca	tgtcggatga	gggtgcccgc	cgccccgacg	gacccctcgt	72840
gccatcgacg	atggagagca	gcgcgtccgt	ggccccgagc	cgcctcggcc	ccggggacgt	72900
cgtggggccag	cgctggcagc	tcgacgagct	cctcaagaaa	gggggcatgg	gccgggtggt	72960
ccgggcgacg	gacatccggc	tcctcgagcc	ggtggcgctc	aagctgatgg	atccggcgat	73020
cgtcgggacc	gagcggggcg	gcgcgcgctt	cctccgcgag	gcgcagaccg	cggcgaagct	73080
gcggggcccc	aacgtgggtc	aggtcctcga	cttcaacgtc	gatgcggcca	cgcaggtgcc	73140
ctacatcgcc	atggagctgc	tcgcggcgga	ggacctggcc	gagcggatag	cgcgcggggc	73200
gctctcctac	gacgagacgg	tggcgatcct	cgccggcgctc	tgcagcgcgga	tcggccggggc	73260
ccaccgcatg	gacatcttcc	accgggacct	caagccggcc	aacgtcttcc	tcgtcgagga	73320
cgacgacggc	ccgctctgca	aggtcctcga	tttcggcatc	gtcaagctcg	cggacgtcgg	73380
gctcggccac	caggggacgc	cgcagaccga	cgccggctcg	acgtggggca	cggtagagcta	73440
catgagcccc	gagcagatcg	ccgacgcccc	gagggtcgat	caccgcgcgg	atctctgggc	73500
gctcggcggtg	atgcctacg	agtgcacgac	cgccgcgccg	cccttcgcgc	gcgactcgct	73560
cttcgagctg	gtccacgaga	tctgctacgg	cgtcccggtc	gtgccgtcgc	ggctggccga	73620
cgtcccgggc	ggcttcgacg	gctgggttcg	gcgcgcgacc	caccgcgatc	gcgagcgccg	73680
cttcgcctcc	gcccgcgagc	tgtcgcagcg	gctccgcgcc	ctcgcgggcc	gtcccccgca	73740
gccggacgtg	cgcacgagct	ccgtcccccc	gccgcccgc	ccgtctcacg	cccagagctg	73800
ggcctcggac	gccaaccaga	tcgacatcaa	cgcgctcaag	gacctgacct	tcaagaacgc	73860

cgtggtccgc	gagttcctcg	acagcgccaa	caagcacttc	gtgtcgggga	gcaaggggct	73920
cggcaagacc	ctgttgctca	cctacaagcg	ctcggtcctc	ggcgagatct	acctcgcgtc	73980
gaacggccgc	gagcgccgcc	agtcgcgcgt	gcagttcatc	ccggaggggc	ggccgtacct	74040
cgacctgatg	ggcgacctcg	gcagcgtcga	tcagcacctg	atcgacctca	tgtcggggct	74100
ctacgagtgc	aagcggctct	ggagcttcag	cttcgcgctg	tcgatcgtct	cctaccagtc	74160
ggccctcgcc	ggcgccggcg	acgccagaga	cctggcgggc	ctcccgcggg	gcctgcgcgg	74220
gctcctcgac	ggccggcctg	tcgagccgac	catggtggtg	aaggagctcc	tgctgatgac	74280
ggtcggcaag	atcaaccagg	tcatcgacgc	catggagggc	ccgctcgagc	ggcggctccg	74340
ctcgctgcac	agcggcgtct	tcattctcgt	cgacaagctc	gatcaggcgc	tccggcggtc	74400
gccgcgggcg	gcctggatcc	acatgcaagc	ggggatgatc	gaggccgcgt	gggacctcat	74460
gaacgccaac	cggcacgtga	aggtcttcgc	caccatccgc	gaggaggcgt	tctcggccta	74520
cgagtccgac	atcaagacca	acctcttcgg	cgcgacgtcg	acgctccgct	acgcgaagca	74580
cgagctcttc	gagctgctcg	agaagctcac	ctattattac	gagcgactgc	cgctccgcga	74640
gttcatccac	ctcgacgtgg	tgagcgcggg	gcgctcggcg	cgcggcgagg	cgacgttcga	74700
cttcctctac	cgccacaccc	tcggggcgcc	gcgcgacctc	gtgatcctcg	cgtcggagat	74760
ctcgcgcaac	cgccgcgccc	tcgacgagcg	gaccttcacg	cgcacgtgc	aggacacgag	74820
cgccggcctg	ctggtggcca	acgtcttcga	cgagatgcgg	gtcttcctcg	aggtgctctg	74880
tcaccgcgac	aagcgggctc	gcttcctcgg	cctcctgccg	tccgacgtcc	tcacccacga	74940
ggacctcgtc	gacgtctggt	gcggcttcca	cggggctcgat	cgcgcgattt	tcgacgtcca	75000
cggccggggac	gcggacgacg	tctatcaccc	gttcgcgag	ctcttcgagt	gcggcctgct	75060
cggggtgatc	ggcggcgatc	cggcggccga	gcggaagggtg	cagcgcttcc	gccagccgca	75120
cgacgcggtc	gtcggctcgc	gccacgcgct	gccgcgctcg	ccctattacc	tcctccaccc	75180
gtccctccgg	gcgctcatcg	agccgctccc	cggcggcggc	cggttccgcg	cgatgcgcca	75240
cgtcgtcatc	ggccacgggg	agccctggcc	gcgccactgg	gatctcgtcg	tcgacgtcca	75300
gcgcgagctc	ttcaagcgcc	cggacgccga	cgaggagatc	ggcgaggcgg	tggtctccct	75360
cctcgaccac	ctcgcgcccg	acgtcgccga	cggcgagggc	gagggcgccg	cgcggcgggc	75420
gatcgccgcg	tcacccaccc	tcgcccgcct	cggcgcccac	ctcgatcgga	tccgctggga	75480
cgatctccac	ctcgccctcc	tcgagctctt	cccggccgcg	cggcgggagg	aggcggagcc	75540
gaccgatcgg	gtcgaggtgg	cgatgctcct	catcgacatc	gtgcggtcga	cccacatgat	75600
cagcaagatc	ggcgacacgc	gcttcgctcg	ccacctccag	cggctccgcc	gcgtgctcct	75660

cgggtcgacg	aacccccgcc	tcttgaaggg	gatcggcgac	ggatacctcg	cggtctatcc	75720
caccatgacg	cgcgcgctcg	acgeggcccc	cgtgctccgc	gacgcggtcg	acgacccccg	75780
cgagctccgc	ctcgtcctgc	actggggcgc	ggtgcggatg	agcgatcacg	acgtgatccg	75840
cagggaggtc	caccggctct	tccggatcga	ggcggtcacc	gaggaggatc	gcgccgcgga	75900
gtcgagcgcc	gggatcacc	tcgcgcagcc	cggccgggtg	aggctctcgc	ggccccgcgt	75960
cgccgcgctg	cccgcgcgcg	agcgcgcggg	cttccgccgg	gcgggggcct	tccggctgga	76020
ggggttcgac	gagcccgcgc	cgatctgggt	ggagatcggc	gcgggcccgt	gaggtcgcgc	76080
gggctacggg	gcgcgcgga	gcgtccgcga	ggcgacgagc	gcccggcaga	gggcgatccg	76140
gtcgtcgagg	tcgaggccgg	ggagctcgcg	cacgtagaag	atgccgtgcc	gcgcgatgaa	76200
gcggagcgcg	gcctcccccc	gcagatcgac	gcggacgagc	acggcctcgc	cgtcgacgag	76260
ctccgccttg	ccgtccctca	gccggaccga	cgcctcgcga	tcgcggatca	cgccgcgcgg	76320
gccgcacacg	gacgccgcgt	cgctccacac	cgcgggcggc	ggctcgcctg	agagggcgct	76380
gtacgcggcc	acgagctcgt	cccatgtcgc	ctcgcggcgc	gcgccgcggg	ccggcgcggt	76440
gctcggcgcg	tggtgcagga	agcgcgccaa	gaagcgccgg	cagaactcgg	cgtattcgag	76500
cgtgaagagg	gcgaactggt	gccaggcctc	gtcgacgcgc	agcgagaaca	tcggataggc	76560
gcgggagcgg	tcgatctcga	cgagccagag	atagcgcacg	agctcccgga	acagcgcctc	76620
tgcctcctcc	cgggtggcca	cggtcttgtt	catgagcagc	ttgtcgatca	cgaagggcgc	76680
ccggtaaagc	aagagatcag	gcgtcctgcg	ctgggtcgcg	gtcacgatgt	ccgtttgcat	76740
gggtcagttc	tcctgggctt	cgagcggctg	aaagggtgcc	tgatcgacga	gcgcgcgggc	76800
gagcgcgagc	tgctcggcct	cggcgaggcc	ggggatgtcg	cgggggcgga	gctcgcgggc	76860
ggcggcgagc	gcgcggagcg	cgggcgcggc	ccacgcgtcg	acgcggagca	ggacctgggc	76920
gcgctcgccc	gcgcgcgcga	gcagctcggc	gcggccggcg	ctcgacgcca	cgtcgaggtc	76980
cacgcccggc	cagcggcgcg	cgagggcggt	ctgcgcgtcg	aggtcctccg	tccggccgag	77040
cgcgcggggc	gcgcgcgcgt	tcgtcccggc	gtcgccgcgg	gcgtgcaggc	gcgcgaggag	77100
cgcggcggcc	cgcggccccc	tcgctcgag	ggcgtcgatc	tcgccccggc	gcacgcgctc	77160
gcgggcgtgc	gcgtggagcg	cctcggacag	cgcgtcctcg	ggggcggggc	gcggcgcggc	77220
gccggtcagg	ccgtcgatgg	ggcccacctg	cgttccagg	accggaccgt	cgtggggggc	77280
gagcagggtg	agcg					77294

<210> 2
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> Primer 66.2

 <400> 2
 ggacgggacg ctcttgcgcc 20

 <210> 3
 <211> 20
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer 66.1

 <400> 3
 ctttagcagc ccttgcgccc 20

 <210> 4
 <211> 18
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer 249-179.1

 <400> 4
 aggaagagct ccagcgca 18

 <210> 5
 <211> 18
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer 249-179.3

 <400> 5
 atgaagctga tccagacc 18

 <210> 6
 <211> 740
 <212> DNA
 <213> Artificial

 <220>
 <223> Probe

 <400> 6
 aggaagagct ccagcgcatc ctgggcaagg cgctgcacct caccgcctc gatcccgcg 60
 ctgacctctt cgagctgggc gccacctcgc tcaccatcgt gcaggcgta cagcacatcg 120
 aggagcgctt cggcgctcggg ctgccggtcg aggtcgtcct ggccgagccg accctcgacg 180
 ccatcgcgcg gcacgtcgcc gacgggacgg cggctggcgc gcccgagccc ccggcccccg 240

ggccccgcgct ggacgcgcct cccgcggcgc ccgagcccc ggccgcgcgc gccccggcc 300
 cgatcgattt cttctccagg gaagatcggg agcgcttcaa gcagcagcag ctccacctgc 360
 ggcacggcgt cgagggcctc ccgaccgtgg atctggccga cgctcccgcg gccccgcgc 420
 tctaccgcga ccgcgggagc cgccgcgact accggccccga gcccgctctcg ttcgacgacc 480
 tctcgcgcct cctcgccgtc ctccggcggt acccgagcgg ccagcagacc cagctctgct 540
 atccctcggc cggcggcacc tacgcctgac agacctatct tcacgtgaag gagggcgcgg 600
 tcgagcgctt cccggccggg atctactact accacccgga tcgcaaccag ctggtgctca 660
 tcaacgatcg gcccgccatc cgccgggtgc accacttcta acaggttggc tgataagtcc 720
 ccggtctgga tcagcttcat 740

<210> 7
 <211> 37
 <212> DNA
 <213> Artificial

<220>
 <223> Table 7: 37 bp fragment adjacent to 43750-44079 fragment found in version 3.

<400> 7
 ggccccgacgg gccgtgcgcc gcgcgcgggt tctcttt 37

<210> 8
 <211> 24
 <212> DNA
 <213> Artificial

<220>
 <223> Table 7: 51119-51137 version 2 fragment replaced.

<400> 8
 atgaggcgac agcgccgttc tacc 24

<210> 9
 <211> 19
 <212> DNA
 <213> Artificial

<220>
 <223> Table 7: version 3 replacement fragment for 51119-51137.

<400> 9
 tgagggacag cccgttcta 19